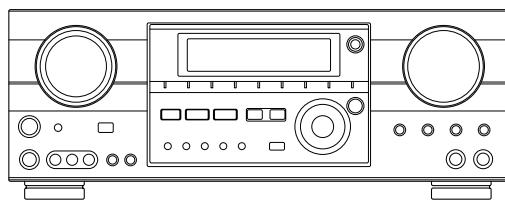




AV-DV95 U



SERVICE MANUAL

STEREO AV RECEIVER

aiwa
S/M Code No. 09-997-332-0N1

DATA

SPECIFICATIONS

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

Outputs

AUDIO OUT (REC OUT): 250 mV (1 kohm)
VIDEO OUT (MONITOR): 1 Vp-p (75 ohms)
SUPER WOOFER: 5.0 V
FRONT SPEAKERS IMP: 8Ω/4Ω selectable (front speakers A and B):
with the SPEAKER IMPEDANCE SELECTOR set to 4Ω, accepts speakers of 4 ohms.
with the SPEAKER IMPEDANCE SELECTOR set to 8Ω, accepts speakers of 8 ohms or more.
SURROUND SPEAKERS IMP: 8Ω (surround speakers): accepts speakers of 8 ohms or more
CENTER SPEAKER IMP: 8Ω/4Ω selectable
with the SPEAKER IMPEDANCE SELECTOR set to 4Ω, accepts speaker of 4 ohms.
with the SPEAKER IMPEDANCE SELECTOR set to 8Ω, accepts speaker of 8 ohms or more.
PHONES (stereo jack): accepts headphones of 32 ohms or more
-20 dB

AM tuner section

Tuning range	530 kHz to 1710 kHz (10 kHz step), 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 μV/m
Antenna	Loop antenna

Amplifier section

Power output	[Stereo Mode]
	Front
	170 watts per channel, Min. RMS at 8 ohms, from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion
	[Dolby Digital Surround or Dolby Pro Logic Mode]
	Front
	120 watts per channel, Min. RMS at 8 ohms, from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion
	Rear (Surround)
	120 watts per channel, Min. RMS at 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion
	Center
	120 watts, Min. RMS at 8 ohms, 1 kHz, with no more than 0.9% Total Harmonic Distortion
Total harmonic distortion	0.15 % (85 W, 1 kHz, 8 ohms, Front)

Total harmonic distortion

Inputs

AUDIO IN	
	PHONO: 2.5 mV, adjustable (47 kohms)
	CD, VIDEO 1/DVD/MD, VIDEO 2/LD/TV, VIDEO 3: 300 mV, adjustable (47 kohms)
	TAPE MONITOR: 300 mV, adjustable (47 kohms)
	AUX: 230 mV, adjustable (47 kohms)
DIGITAL IN	
	COAXIAL (VIDEO 2):
	OPTICAL (VIDEO 1):
	OPTICAL (VIDEO 3):
	OPTICAL (CD):
	accept linear PCM (32 kHz, 44.1 kHz and 48 kHz) signals and bit stream of Dolby Digital and DTS Surround
	VIDEO IN: 1 Vp-p (75 ohms)

Muting

General

Power requirements	120 V AC, 60 Hz
Power consumption	230 W
Dimensions (W × H × D)	430 × 155 × 385 mm (17 × 6 1/8 × 15 1/4 in.)
Weight	12 kg (26 lb 7 oz.)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
“DOLBY” and the double-D symbol  and “PRO LOGIC” are trademarks of Dolby Laboratories Licensing Corporation.
- The word “BBE” and the “BBE symbol” are trademarks of BBE Sound, Inc.
Under license from BBE Sound, Inc.

ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-AR1-903-010	IB,U(ESF)M	
2	87-006-225-010	AM LOOP ANT NC2	
3	87-043-115-010	ANT,FEEDER FM	
4	88-AR1-654-010	RC UNIT,RC-8AR01	

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC							
87-AR4-687-040	C-IC,LC74763M-9670			87-A40-002-080	ZENER,MTZJ5.1C		
87-017-915-080	IC,BU4094BCF			87-A40-115-060	DIODE,RS603M		
87-A20-870-010	IC,GP1F37R			87-A40-469-080	C-DIODE,HSM2838CTR		
87-017-888-080	IC,NJM4558MD			87-A40-004-080	ZENER,MTZJ16A		
8Z-AR1-633-010	C-IC,UPD780228GF			87-A40-335-080	ZENER,MTZJ11C T-72		
87-070-083-010	IC,GP1U281X			87-A40-224-010	DIODE,GBU8D		
87-001-604-080	IC,TCT4HCU04F			87-070-274-080	DIODE,1N4003 SEM		
87-A20-824-010	C-IC,CS4226			87-A40-435-080	ZENER,MTZJ30D		
87-A21-257-040	C-IC,SN74LVC574A			87-A40-347-080	ZENER,MTZJ2.2B		
87-A21-227-080	IC,LH28F400BVE-TL85			87-A40-646-010	DIODE,FMB-G16L		
87-A21-230-080	IC,CS4926			87-A40-488-080	DIODE,1SS244		
87-A20-736-010	IC,BA033ST			87-017-931-080	ZENER,MTZJ5.6B		
87-020-903-010	IC,NJM7805FA			87-A40-438-080	ZENER,MTZJ4.7A		
87-A20-715-010	IC,M62439SP			87-A40-234-080	ZENER,MTZJ5.6A		
87-017-022-080	IC,NJM2068M-D(T1)			87-A40-291-080	DIODE,1N4148 (CPT)		
MAIN C.B							
87-020-784-080	IC,TC4053BF			C101	87-010-235-080	CAP,E 470-16 SME	
87-A21-018-040	C-IC,M65849BFP631D			C102	87-010-235-080	CAP,E 470-16 SME	
87-017-726-080	IC,BU4052 BCF			C103	87-010-384-080	CAP,ELECT 100-25V	
87-A21-202-040	C-IC,M62445AFP			C104	87-016-128-080	CAP,E 22-25 105	
87-A20-056-010	IC,BA3880S			C105	87-010-247-080	CAP,ELECT 100-50V	
87-A20-437-010	C-IC,M62431FP			C106	87-010-384-080	CAP,ELECT 100-25V	
87-070-127-110	IC,LC72131 D			C107	87-010-263-080	CAP,ELECT 100-10V	
87-A20-820-010	IC,BA7625			C108	87-012-140-080	CAP 470P	
87-017-917-080	IC,BU4066BCF			C109	87-012-368-080	C-CAP,S 0.1-50 F	
				C110	87-012-368-080	C-CAP,S 0.1-50 F	
TRANSISTOR				C111	87-012-368-080	C-CAP,S 0.1-50 F	
87-A30-197-080	TR,KTA1267GR			C112	87-012-368-080	C-CAP,S 0.1-50 F	
87-026-245-080	TR,DTC114ES			C113	87-016-658-090	CAP,E 4700-35 SMG	
87-A30-198-080	TR,KTC3199GR			C114	87-016-658-090	CAP,E 4700-35 SMG	
87-A30-073-080	C-TR,RT1N 141C			C115	87-012-368-080	C-CAP,S 0.1-50 F	
87-A30-071-080	C-TR,RT1N 144C			C116	87-012-368-080	C-CAP,S 0.1-50 F	
89-110-372-080	TR,2SA1037(140MHZ 200MW)			C117	87-012-368-080	C-CAP,S 0.1-50 F	
89-213-750-010	TR,2SB1375 (25W)			C118	87-012-368-080	C-CAP,S 0.1-50 F	
87-A30-083-080	TR,CSD1489B			C119	87-A11-316-090	CAP,E 8200-85	
87-A30-085-040	C-TR,CSA1362GR			C120	87-A11-316-090	CAP,E 8200-85	
87-A30-075-080	C-TR,2SA1235F			C121	87-010-260-080	CAP,ELECT 47-25V	
89-112-965-080	TR,2SA1296 (0.75W)			C122	87-010-403-080	CAP,ELECT 3.3-50V	
87-A30-076-080	C-TR,2SC3052F			C123	87-010-384-080	CAP,ELECT 100-25V	
87-026-610-080	TR,KTC3198GR			C124	87-010-384-080	CAP,ELECT 100-25V	
89-213-702-010	TR,2SB1370 (1.8W)			C125	87-A10-417-080	CAP,E 47-63 M SME	
87-A30-072-080	C-TR,RT1P 144C			C126	87-010-263-080	CAP,ELECT 100-10V	
87-A30-087-080	C-FET,2SK2158			C127	87-010-197-080	CAP,CHIP 0.01 DM	
87-A30-074-080	C-TR,RT1P 141C			C131	87-010-544-080	CAP,ELECT 0.1-50V	
87-026-263-080	C-TR,RN1410			C133	87-010-404-080	CAP,ELECT 4.7-50V	
87-026-609-080	TR,KTA1266GR			C135	87-012-368-080	C-CAP,S 0.1-50 F	
87-A30-257-080	C-TR,2SD1306E			C136	87-012-368-080	C-CAP,S 0.1-50 F	
87-A30-107-070	C-TR,CMBT5401			C143	87-A10-712-080	C-CAP,S 0.22-50 Z F	
87-026-214-080	TR,DTA114YS (0.3W)			C144	87-A10-712-080	C-CAP,S 0.22-50 Z F	
87-A30-190-080	TR,CC5551			C149	87-010-154-080	CAP CHIP 10P	
87-A30-097-010	TR,FN 1016			C150	87-010-154-080	CAP CHIP 10P	
87-A30-098-010	TR,FP 1016			C153	87-010-401-080	CAP,ELECT 1-50V	
87-A30-106-070	C-TR,CMBT5551			C154	87-010-401-080	CAP,ELECT 1-50V	
87-A30-162-010	FET,2SK2937			C155	87-010-196-080	CHIP CAPACITOR,0.1-25	
87-026-236-080	TR,DTC124E,K			C156	87-010-196-080	CHIP CAPACITOR,0.1-25	
87-026-232-080	TR,DTA144WK			C157	87-010-408-080	CAP,ELECT 47-50V	
87-A30-196-080	TR,2SC4115SR			C158	87-010-248-080	CAP,ELECT 220-10V	
89-327-143-080	TR,2SC2714 (0.1W)			C159	87-010-154-080	CAP CHIP 10P	
				C169	87-010-154-080	CAP CHIP 10P	
				C170	87-010-154-080	CAP CHIP 10P	
				C171	87-010-196-080	CHIP CAPACITOR,0.1-25	
DIODE				C172	87-010-154-080	CAP CHIP 10P	
87-020-465-080	DIODE,1SS133 (110MA)			C173	87-010-405-080	CAP,ELECT 10-50V	
87-A40-345-080	ZENER,MTZJ10C			C174	87-010-401-080	CAP,ELECT 1-50V	
87-A40-344-080	ZENER,MTZJ6.2C			C175	87-010-196-080	CHIP CAPACITOR,0.1-25	
87-A40-468-080	C-DIODE,HSM2836CTR			C203	87-010-178-080	CHIP CAP 1000P	
87-070-136-080	ZENER,MTZJ5.1B			C204	87-010-178-080	CHIP CAP 1000P	
87-027-686-080	ZENER,HZ-12A1			C205	87-010-405-080	CAP,ELECT 10-50V	
87-A40-235-080	ZENER,MTZJ9.1C						

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C206	87-010-405-080	CAP, ELECT 10-50V	C409	87-A10-516-080	C-CAP,S 100P-200 J CH		
C208	87-016-299-080	CAP,E 10-100 SME	C411	87-010-805-080	CAP, S 1-16		
C209	87-010-406-080	CAP, ELECT 22-50	C412	87-010-402-080	CAP, ELECT 2.2-50V		
C210	87-010-406-080	CAP, ELECT 22-50	C413	87-010-196-080	CHIP CAPACITOR,0.1-25		
C211	87-010-322-080	C-CAP,S 100P-50 CH	C414	87-010-178-080	CHIP CAP 1000P		
C212	87-010-322-080	C-CAP,S 100P-50 CH	C416	87-016-299-080	CAP,E 10-100 SME		
C215	87-A10-897-080	CAP,E 100-25 BP SME	C417	87-A10-946-080	C-CAP,S 220P-100 J CH		
C216	87-A10-897-080	CAP,E 100-25 BP SME	C430	87-A10-354-080	C-CAP,S 0.047-50 K B		
C217	87-A10-516-080	C-CAP,S 100P-200 J CH	C485	87-010-186-080	CAP,CHIP 4700P		
C218	87-A10-516-080	C-CAP,S 100P-200 J CH	C491	87-012-368-080	C-CAP,S 0.1-50 F		
C221	87-010-805-080	CAP, S 1-16	C492	87-012-368-080	C-CAP,S 0.1-50 F		
C222	87-010-805-080	CAP, S 1-16	C493	87-010-190-080	S CHIP F 0.01		
C223	87-010-402-080	CAP, ELECT 2.2-50V	C501	87-010-404-080	CAP, ELECT 4.7-50V		
C224	87-010-402-080	CAP, ELECT 2.2-50V	C502	87-010-404-080	CAP, ELECT 4.7-50V		
C225	87-010-196-080	CHIP CAPACITOR,0.1-25	C503	87-012-157-080	C-CAP,S 330P-50 CH		
C227	87-010-178-080	CHIP CAP 1000P	C504	87-012-157-080	C-CAP,S 330P-50 CH		
C228	87-010-178-080	CHIP CAP 1000P	C511	87-010-404-080	CAP, ELECT 4.7-50V		
C230	87-A10-354-080	C-CAP,S 0.047-50 K B	C512	87-010-404-080	CAP, ELECT 4.7-50V		
C231	87-A10-354-080	C-CAP,S 0.047-50 K B	C513	87-010-260-080	CAP, ELECT 47-25V		
C232	87-A10-946-080	C-CAP,S 220P-100 J CH	C514	87-010-260-080	CAP, ELECT 47-25V		
C285	87-010-186-080	CAP,CHIP 4700P	C515	87-010-370-080	CAP,E 330-6.3 SME		
C287	87-010-190-080	S CHIP F 0.01	C516	87-010-370-080	CAP,E 330-6.3 SME		
C288	87-010-190-080	S CHIP F 0.01	C517	87-010-196-080	CHIP CAPACITOR,0.1-25		
C289	87-010-190-080	S CHIP F 0.01	C518	87-010-196-080	CHIP CAPACITOR,0.1-25		
C290	87-010-190-080	S CHIP F 0.01	C519	87-010-196-080	CHIP CAPACITOR,0.1-25		
C291	87-012-368-080	C-CAP,S 0.1-50 F	C520	87-010-196-080	CHIP CAPACITOR,0.1-25		
C292	87-012-368-080	C-CAP,S 0.1-50 F	C531	87-010-213-080	C-CAP,S 0.015-50 B		
C293	87-012-368-080	C-CAP,S 0.1-50 F	C532	87-010-992-080	C-CAP,S 0.047-25 B		
C294	87-012-368-080	C-CAP,S 0.1-50 F	C533	87-015-785-080	CHIP CAPACITOR, 0.1FZ-25Z		
C295	87-012-368-080	C-CAP,S 0.1-50 F	C535	87-010-404-080	CAP, ELECT 4.7-50V		
C296	87-012-368-080	C-CAP,S 0.1-50 F	C536	87-010-404-080	CAP, ELECT 4.7-50V		
C297	87-012-368-080	C-CAP,S 0.1-50 F	C539	87-010-401-080	CAP, ELECT 1-50V		
C298	87-012-368-080	C-CAP,S 0.1-50 F	C540	87-010-401-080	CAP, ELECT 1-50V		
C303	87-010-179-080	CAP,CHIP S B1200P	C541	87-010-185-080	C-CAP,S 3900P-50 B		
C304	87-010-179-080	CAP,CHIP S B1200P	C542	87-010-185-080	C-CAP,S 3900P-50 B		
C305	87-010-405-080	CAP, ELECT 10-50V	C547	87-010-404-080	CAP, ELECT 4.7-50V		
C306	87-010-405-080	CAP, ELECT 10-50V	C548	87-010-404-080	CAP, ELECT 4.7-50V		
C308	87-016-299-080	CAP,E 10-100 SME	C549	87-016-081-080	C-CAP,S 0.1-16 RK		
C309	87-010-382-080	CAP, ELECT 22-25V	C550	87-016-081-080	C-CAP,S 0.1-16 RK		
C310	87-010-382-080	CAP, ELECT 22-25V	C554	87-010-196-080	CHIP CAPACITOR,0.1-25		
C311	87-010-322-080	C-CAP,S 100P-50 CH	C555	87-010-405-080	CAP, ELECT 10-50V		
C312	87-010-322-080	C-CAP,S 100P-50 CH	C556	87-010-248-080	CAP, ELECT 220-10V		
C315	87-A10-897-080	CAP,E 100-25 BP SME	C557	87-010-405-080	CAP, ELECT 10-50V		
C316	87-A10-897-080	CAP,E 100-25 BP SME	C559	87-010-183-080	C-CAP,S 2700P-50 B		
C317	87-A10-516-080	C-CAP,S 100P-200 J CH	C561	87-012-140-080	CAP 470P		
C318	87-A10-516-080	C-CAP,S 100P-200 J CH	C562	87-012-140-080	CAP 470P		
C320	87-A10-946-080	C-CAP,S 220P-100 J CH	C565	87-010-404-080	CAP, ELECT 4.7-50V		
C321	87-010-805-080	CAP, S 1-16	C566	87-010-404-080	CAP, ELECT 4.7-50V		
C322	87-010-805-080	CAP, S 1-16	C601	87-010-378-080	CAP, ELECT 10-16V		
C323	87-010-402-080	CAP, ELECT 2.2-50V	C602	87-010-378-080	CAP, ELECT 10-16V		
C324	87-010-402-080	CAP, ELECT 2.2-50V	C603	87-012-156-080	C-CAP,S 220P-50 CH		
C325	87-010-196-080	CHIP CAPACITOR,0.1-25	C604	87-012-156-080	C-CAP,S 220P-50 CH		
C327	87-010-178-080	CHIP CAP 1000P	C605	87-010-405-080	CAP, ELECT 10-50V		
C328	87-010-178-080	CHIP CAP 1000P	C606	87-010-405-080	CAP, ELECT 10-50V		
C330	87-A10-354-080	C-CAP,S 0.047-50 K B	C607	87-012-140-080	CAP 470P		
C331	87-A10-354-080	C-CAP,S 0.047-50 K B	C608	87-012-140-080	CAP 470P		
C334	87-A10-918-080	CAP,E 100-16 SMG	C609	87-010-188-080	CAP,CHIP 6800P		
C335	87-A10-918-080	CAP,E 100-16 SMG	C610	87-010-188-080	CAP,CHIP 6800P		
C385	87-010-186-080	CAP,CHIP 4700P	C611	87-010-197-080	CAP, CHIP 0.01 DM		
C391	87-012-368-080	C-CAP,S 0.1-50 F	C612	87-010-195-080	C-CAP,S 0.068-25 F		
C392	87-012-368-080	C-CAP,S 0.1-50 F	C613	87-010-195-080	C-CAP,S 0.068-25 F		
C393	87-012-368-080	C-CAP,S 0.1-50 F	C614	87-010-197-080	CAP, CHIP 0.01 DM		
C394	87-012-368-080	C-CAP,S 0.1-50 F	C615	87-010-404-080	CAP, ELECT 4.7-50V		
C395	87-010-190-080	S CHIP F 0.01	C616	87-010-404-080	CAP, ELECT 4.7-50V		
C396	87-010-190-080	S CHIP F 0.01	C617	87-010-404-080	CAP, ELECT 4.7-50V		
C402	87-010-181-080	CAP,CHIP S 1800P	C618	87-010-404-080	CAP, ELECT 4.7-50V		
C403	87-010-405-080	CAP, ELECT 10-50V	C619	87-010-404-080	CAP, ELECT 4.7-50V		
C405	87-010-408-080	CAP, ELECT 47-50V	C620	87-010-101-080	CAP, ELECT 220-16		
C406	87-010-322-080	C-CAP,S 100P-50 CH	C621	87-010-260-080	CAP, ELECT 47-25V		
C408	87-A10-897-080	CAP,E 100-25 BP SME	C745	87-012-368-080	C-CAP,S 0.1-50 F		

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C746	87-012-368-080	C-CAP,S 0.1-50 F		R416	87-A00-418-010	RES,M/F 0.15-3W J	
C901	87-010-406-080	CAP, ELECT 22-50		R417	87-A00-418-010	RES,M/F 0.15-3W J	
C902	87-010-406-080	CAP, ELECT 22-50		R424	87-A00-418-010	RES,M/F 0.15-3W J	
C903	87-010-406-080	CAP, ELECT 22-50		R590	87-A00-418-010	RES,M/F 0.15-3W J	
C904	87-010-406-080	CAP, ELECT 22-50		R611	87-A00-418-010	RES,M/F 0.15-3W J	
C905	87-010-406-080	CAP, ELECT 22-50		R905	87-010-317-080	C-CAP,S 39P-50 CH	
C906	87-010-260-080	CAP, ELECT 47-25V		RY101	87-A90-454-010	RELAY,12V DJ12D2-O(M)	
C907	87-010-196-080	CHIP CAPACITOR,0.1-25		RY102	87-A90-454-010	RELAY,12V DJ12D2-O(M)	
C908	87-010-387-080	CAP,E 470-25 SME		RY281	87-A90-143-010	RELAY,DG12D-OS(M)	
C909	87-010-371-080	CAP, ELECT 470-6.3V		RY481	87-A90-143-010	RELAY,DG12D-OS(M)	
C910	87-010-371-080	CAP, ELECT 470-6.3V		RY801	87-A90-143-010	RELAY,DG12D-OS(M)	
C911	87-010-371-080	CAP, ELECT 470-6.3V		S101	86-SP8-611-010	SW,SL 1-1-2	
C912	87-010-196-080	CHIP CAPACITOR,0.1-25		S291	87-A90-174-010	SW,PUSH 2-2-2	
C913	87-010-196-080	CHIP CAPACITOR,0.1-25		S292	87-A90-174-010	SW,PUSH 2-2-2	
C914	87-010-196-080	CHIP CAPACITOR,0.1-25		W3	8Z-AR2-606-010	CONN ASSY,9P VH	
CN110	87-A60-621-010	CONN,4P V 2MM JMT		WH101	87-A90-510-010	HLDR, WIRE 2.5-9P	
CN110	87-009-032-010	CONNECTOR,4P YEL		FRONT C.B			
CN501	87-A60-039-010	CONN,32P V 9604S-32C		C101	87-010-178-080	CHIP CAP 1000P	
CN502	87-A60-052-010	CONN,18P V 9604S-18C		C103	87-010-178-080	CHIP CAP 1000P	
CN503	87-A60-057-010	CONN,11P V 9604S-11C		C105	87-016-526-080	C-CAP,S 0.47-16 BK	
CN504	87-099-574-010	CONN,20P TUC-P20P-B1		C107	87-016-526-080	C-CAP,S 0.47-16 BK	
CN505	87-A60-189-010	CONN,16P V TUC-P16P-B1		C108	87-016-526-080	C-CAP,S 0.47-16 BK	
CN702	87-099-568-010	CONN,11P TUC-P11P-B1		C109	87-010-322-080	C-CAP,S 100P-50 CH	
CN950	87-099-667-010	CONN,8P TUC-P8P-B1		C110	87-010-322-080	C-CAP,S 100P-50 CH	
J201	87-A60-199-010	TERMINAL,SP 8P CJ-9034-07 V0		C111	87-015-699-040	CAP,E 10-50 7L	
J301	87-A60-200-110	TERMINAL,SP 6P CJ-9033		C112	87-010-322-080	C-CAP,S 100P-50 CH	
J501	87-099-609-010	JACK,PIN 4P KM EARTH		C113	87-010-322-080	C-CAP,S 100P-50 CH	
J502	87-099-609-010	JACK,PIN 4P KM EARTH		C114	87-010-322-080	C-CAP,S 100P-50 CH	
J715	87-A60-244-010	JACK,PIN 1P BLK		C115	87-010-322-080	C-CAP,S 100P-50 CH	
J901	87-099-911-010	JACK,PIN 3P YEL		C116	87-015-699-040	CAP,E 10-50 7L	
J902	87-099-912-010	JACK,PIN 3P YEL W/E		C117	87-016-526-080	C-CAP,S 0.47-16 BK	
J903	87-099-911-010	JACK,PIN 3P YEL		C118	87-010-498-040	CAP,E 10-16 GAS	
L291	87-003-383-010	COIL,1UH-S		C120	87-015-694-040	E/CAP 0.47-50	
L292	87-003-383-010	COIL,1UH-S		C121	87-016-526-080	C-CAP,S 0.47-16 BK	
L293	87-003-383-010	COIL,1UH-S		C122	87-015-699-040	CAP,E 10-50 7L	
L294	87-003-383-010	COIL,1UH-S		C123	87-010-196-080	CHIP CAPACITOR,0.1-25	
L391	87-003-383-010	COIL,1UH-S		C124	87-015-699-040	CAP,E 10-50 7L	
L392	87-003-383-010	COIL,1UH-S		C125	87-010-196-080	CHIP CAPACITOR,0.1-25	
L491	87-003-383-010	COIL,1UH-S		C126	87-A10-189-040	CAP,E 220-10	
L901	87-003-152-080	COIL, 100UH		C127	87-016-526-080	C-CAP,S 0.47-16 BK	
△PR101	87-026-691-080	FUSE,10A 125V 251		C129	87-010-196-080	CHIP CAPACITOR,0.1-25	
△PR104	87-026-691-080	FUSE,10A 125V 251		C130	87-010-198-080	CAP, CHIP 0.022	
△PR107	87-026-691-080	FUSE,10A 125V 251		C131	87-010-408-080	CAP, ELECT 47-50V	
△PR108	87-026-691-080	FUSE,10A 125V 251		C132	87-012-368-080	C-CAP,S 0.1-50 F	
△PR201	87-026-691-080	FUSE,10A 125V 251		C133	87-016-526-080	C-CAP,S 0.47-16 BK	
△PR202	87-026-691-080	FUSE,10A 125V 251		C134	87-010-196-080	CHIP CAPACITOR,0.1-25	
△PR301	87-026-691-080	FUSE,10A 125V 251		C136	87-016-526-080	C-CAP,S 0.47-16 BK	
△PR302	87-026-691-080	FUSE,10A 125V 251		C137	87-010-312-080	C-CAP,S 15P-50 CH	
△PR401	87-026-691-080	FUSE,10A 125V 251		C138	87-010-318-080	C-CAP,S 47P-50 CH	
△PR402	87-026-691-080	FUSE,10A 125V 251		C139	87-010-316-080	C-CAP,S 33P-50 CH	
R109	87-029-060-080	RES,FUSE 33-1/4 W		C140	87-010-196-080	CHIP CAPACITOR,0.1-25	
R143	87-A00-259-080	RES,M/F 0.33-1W J		C141	87-012-156-080	C-CAP,S 220P-50 CH	
R176	87-A00-401-050	RES,M/F 390-1W J VTP		C142	87-010-198-080	CAP, CHIP 0.022	
R179	87-A00-402-050	RES,M/F 560-1W J VTP		C143	87-012-156-080	C-CAP,S 220P-50 CH	
R211	87-A00-418-010	RES,M/F 0.15-3W J		C144	87-010-178-080	CHIP CAP 1000P	
R212	87-A00-418-010	RES,M/F 0.15-3W J		C145	87-012-157-080	C-CAP,S 330P-50 CH	
R231	87-A00-418-010	RES,M/F 0.15-3W J		C146	87-012-157-080	C-CAP,S 330P-50 CH	
R232	87-A00-418-010	RES,M/F 0.15-3W J		C147	87-012-157-080	C-CAP,S 330P-50 CH	
R233	87-A00-418-010	RES,M/F 0.15-3W J		C148	87-012-157-080	C-CAP,S 330P-50 CH	
R234	87-A00-418-010	RES,M/F 0.15-3W J		C149	87-012-157-080	C-CAP,S 330P-50 CH	
R281	87-A00-126-080	RES M/F 220-1/WJ VIP		C150	87-012-157-080	C-CAP,S 330P-50 CH	
R282	87-A00-126-080	RES M/F 220-1/WJ VIP		C153	87-012-368-080	C-CAP,S 0.1-50 F	
R283	87-A00-126-080	RES M/F 220-1/WJ VIP		C154	87-012-368-080	C-CAP,S 0.1-50 F	
R284	87-A00-126-080	RES M/F 220-1/WJ VIP		C155	87-012-157-080	C-CAP,S 330P-50 CH	
R331	87-A00-418-010	RES,M/F 0.15-3W J		C156	87-015-699-040	CAP,E 10-50 7L	
R332	87-A00-418-010	RES,M/F 0.15-3W J		C157	87-012-157-080	C-CAP,S 330P-50 CH	
R333	87-A00-418-010	RES,M/F 0.15-3W J		C158	87-012-368-080	C-CAP,S 0.1-50 F	
R334	87-A00-418-010	RES,M/F 0.15-3W J					

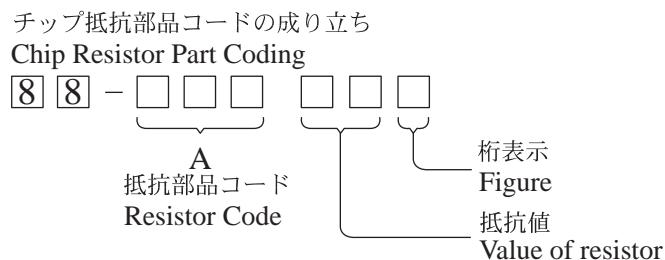
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C160	87-012-157-080	C-CAP,S 330P-50 CH		C717	87-012-286-080	CAP, U 0.01-25	
C162	87-010-182-080	C-CAP,S 2200P-50 B		C719	87-012-286-080	CAP, U 0.01-25	
C164	87-A10-189-040	CAP,E 220-10		C721	87-012-176-080	CAP 15P	
C170	87-012-157-080	C-CAP,S 330P-50 CH		C722	87-012-176-080	CAP 15P	
C171	87-012-157-080	C-CAP,S 330P-50 CH		C723	87-010-401-080	CAP, ELECT 1-50V	
C181	87-010-322-080	C-CAP,S 100P-50 CH		C723	87-012-274-080	CHIP CAP,U 1000P-50B	
C182	87-010-322-080	C-CAP,S 100P-50 CH		C725	87-012-274-080	CHIP CAP,U 1000P-50B	
C183	87-010-322-080	C-CAP,S 100P-50 CH		C726	87-010-405-080	CAP, ELECT 10-50V	
C184	87-010-322-080	C-CAP,S 100P-50 CH		C727	87-010-196-080	CHIP CAPACITOR,0.1-25	
C185	87-010-322-080	C-CAP,S 100P-50 CH		C728	87-010-248-080	CAP, ELECT 220-10V	
C186	87-010-322-080	C-CAP,S 100P-50 CH		C755	87-012-286-080	CAP, U 0.01-25	
C187	87-010-322-080	C-CAP,S 100P-50 CH		C756	87-012-286-080	CAP, U 0.01-25	
C188	87-010-322-080	C-CAP,S 100P-50 CH		C757	87-012-188-080	C-CAP,U 47P-50 CH	
C189	87-010-322-080	C-CAP,S 100P-50 CH		C758	87-012-167-080	C-CAP,U 5P-50 CH	
C190	87-010-322-080	C-CAP,S 100P-50 CH		C761	87-010-196-080	CHIP CAPACITOR,0.1-25	
C240	87-016-526-080	C-CAP,S 0.47-16 BK		C763	87-010-829-080	CAP, U 0.047-16	
C402	87-012-156-080	C-CAP,S 220P-50 CH		C764	87-012-337-080	C-CAP,U 56P-50 CH	
C405	87-010-182-080	C-CAP,S 2200P-50 B		C765	87-012-286-080	CAP, U 0.01-25	
C406	87-010-182-080	C-CAP,S 2200P-50 B		C766	87-012-286-080	CAP, U 0.01-25	
C407	87-010-178-080	CHIP CAP 1000P		C769	87-010-260-080	CAP, ELECT 47-25V	
C409	87-010-196-080	CHIP CAPACITOR,0.1-25		C770	87-010-829-080	CAP, U 0.047-16	
C411	87-010-322-080	C-CAP,S 100P-50 CH		C771	87-010-383-080	CAP, ELECT 33-25V	
C412	87-010-178-080	CHIP CAP 1000P		C772	87-010-829-080	CAP, U 0.047-16	
CN201	87-A60-053-010	CONN,17P V 9604S-17C		C773	87-010-196-080	CHIP CAPACITOR,0.1-25	
CN202	87-A60-039-010	CONN,32P V 9604S-32C		C774	87-010-263-080	CAP, ELECT 100-10V	
CN203	87-A60-052-010	CONN,18P V 9604S-18C		C775	87-010-404-080	CAP, ELECT 4.7-50V	
D102	87-A40-496-040	LED,SLR-342MCT31 GRN		C776	87-012-286-080	CAP, U 0.01-25	
D103	87-A40-496-040	LED,SLR-342MCT31 GRN		C777	87-010-400-080	CAP, ELECT 0.47-50V	
D105	87-A40-496-040	LED,SLR-342MCT31 GRN		C778	87-010-401-080	CAP, ELECT 1-50V	
D107	87-A40-496-040	LED,SLR-342MCT31 GRN		C779	87-010-401-080	CAP, ELECT 1-50V	
D109	87-A40-496-040	LED,SLR-342MCT31 GRN		C780	87-010-196-080	CHIP CAPACITOR,0.1-25	
D111	87-A40-496-040	LED,SLR-342MCT31 GRN		C781	87-010-405-080	CAP, ELECT 10-50V	
D113	87-A40-496-040	LED,SLR-342MCT31 GRN		C782	87-010-405-080	CAP, ELECT 10-50V	
D115	87-A40-496-040	LED,SLR-342MCT31 GRN		C783	87-012-286-080	CAP, U 0.01-25	
D117	87-A40-496-040	LED,SLR-342MCT31 GRN		C784	87-012-286-080	CAP, U 0.01-25	
FL101	8Z-AR1-602-010	FL,BJ691 GK		C785	87-010-805-080	CAP, S 1-16	
LED101	87-A40-317-080	LED,SLR-342VCT31 RED		C786	87-010-805-080	CAP, S 1-16	
LED104	87-A40-317-080	LED,SLR-342VCT31 RED		C787	87-012-280-080	CAP, U 3300P-50	
LED106	87-A40-317-080	LED,SLR-342VCT31 RED		C788	87-012-280-080	CAP, U 3300P-50	
LED108	87-A40-317-080	LED,SLR-342VCT31 RED		C789	87-012-275-080	C-CAP,U 1200P-50 B	
LED110	87-A40-317-080	LED,SLR-342VCT31 RED		C790	87-012-275-080	C-CAP,U 1200P-50 B	
LED112	87-A40-317-080	LED,SLR-342VCT31 RED		C791	87-010-405-080	CAP, ELECT 10-50V	
LED114	87-A40-317-080	LED,SLR-342VCT31 RED		C793	87-012-273-080	C-CAP,U 820P-50 B	
LED116	87-A40-317-080	LED,SLR-342VCT31 RED		C794	87-010-406-080	CAP, ELECT 22-50	
LED119	87-A40-317-080	LED,SLR-342VCT31 RED		C795	87-010-596-080	CAP, S 0.047-16	
S101	87-A90-095-080	SW,TACT EVQ11G04M		C796	87-010-403-080	CAP, ELECT 3.3-50V	
S107	87-A90-095-080	SW,TACT EVQ11G04M		C797	87-012-278-080	C-CAP,U 2200P-50 B	
S108	87-A90-095-080	SW,TACT EVQ11G04M		C798	87-012-278-080	C-CAP,U 2200P-50 B	
S109	87-A90-095-080	SW,TACT EVQ11G04M		C799	87-010-829-080	CAP, U 0.047-16	
S110	87-A90-095-080	SW,TACT EVQ11G04M		C812	87-012-286-080	CAP, U 0.01-25	
S111	87-A90-095-080	SW,TACT EVQ11G04M		C813	87-010-197-080	CAP, CHIP 0.01 DM	
S112	87-A90-095-080	SW,TACT EVQ11G04M		C814	87-012-286-080	CAP, U 0.01-25	
S113	87-A90-095-080	SW,TACT EVQ11G04M		C819	87-010-197-080	CAP, CHIP 0.01 DM	
S114	87-A90-095-080	SW,TACT EVQ11G04M		C820	87-010-260-080	CAP, ELECT 47-25V	
S115	87-A90-095-080	SW,TACT EVQ11G04M		C821	87-012-286-080	CAP, U 0.01-25	
S116	87-A90-095-080	SW,TACT EVQ11G04M		C822	87-012-286-080	CAP, U 0.01-25	
SW101	87-A90-535-010	SW,RTRY EC16B24304		C823	87-012-286-080	CAP, U 0.01-25	
SW102	87-A90-950-010	SW,RTRY EC12E12504 ENCODER		C828	87-010-196-080	CHIP CAPACITOR,0.1-25	
X101	87-A70-075-080	VIB,CER 4.19MHZ CRHF		C829	87-010-196-080	CHIP CAPACITOR,0.1-25	
				C959	87-010-196-080	CHIP CAPACITOR,0.1-25	
TUNER C.B				C960	87-010-196-080	CHIP CAPACITOR,0.1-25	
C701	87-010-260-080	CAP, ELECT 47-25V		C961	87-012-170-080	C-CAP,U 8P-50 CH	
C702	87-010-404-080	CAP, ELECT 4.7-50V		CF801	87-008-261-010	FILTER, SFE10.7MA5-A	
C703	87-012-286-080	CAP, U 0.01-25		CF802	87-008-261-010	FILTER, SFE10.7MA5-A	
C704	87-012-286-080	CAP, U 0.01-25		CN601	87-099-028-010	CONN,11P 6216 H	
C711	87-010-263-080	CAP, ELECT 100-10V		FFE801	A8-8ZA-190-030	8ZA-1 FEUNM	
C712	87-010-196-080	CHIP CAPACITOR,0.1-25		J801	87-A60-657-010	TERMINAL,4P HSP-154V5-02	
C713	87-012-286-080	CAP, U 0.01-25		L771	87-A50-266-010	COIL,FM DET-2N(TOK)	
C714	87-012-286-080	CAP, U 0.01-25		L772	87-A90-733-010	FLTR,PCFAZH-450 (TOK)	
				L781	87-005-847-080	COIL,2.2UH(CECS)	

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
L791	87-A50-209-010	COIL,1POLE MPX(MIT)		C234	87-010-196-080	CHIP CAPACITOR,0.1-25	
L792	87-A50-209-010	COIL,1POLE MPX(MIT)		C235	87-010-405-080	CAP, ELECT 10-50V	
L832	87-005-847-080	COIL,2.2UH(CECS)		C238	87-012-156-080	C-CAP,S 220P-50 CH	
L981	87-NF4-650-010	COIL,AM PACK 4N(TOK)		C239	87-010-405-080	CAP, ELECT 10-50V	
X721	87-A70-061-010	VIB,XTAL 4.500MHZ CSA-309		C240	87-012-156-080	C-CAP,S 220P-50 CH	
DIGITAL C.B				C242	87-010-196-080	CHIP CAPACITOR,0.1-25	
C101	87-010-196-080	CHIP CAPACITOR,0.1-25		C243	87-010-196-080	CHIP CAPACITOR,0.1-25	
C102	87-010-196-080	CHIP CAPACITOR,0.1-25		C245	87-010-178-080	CHIP CAP 1000P	
C103	87-010-314-080	C-CAP,S 22P-50V		C246	87-010-405-080	CAP, ELECT 10-50V	
C104	87-010-196-080	CHIP CAPACITOR,0.1-25		C247	87-012-156-080	C-CAP,S 220P-50 CH	
C105	87-010-379-080	CAP, ELECT 22-16V		C248	87-010-178-080	CHIP CAP 1000P	
C106	87-010-196-080	CHIP CAPACITOR,0.1-25		C249	87-010-405-080	CAP, ELECT 10-50V	
C107	87-010-401-080	CAP, ELECT 1-50V		C250	87-012-156-080	C-CAP,S 220P-50 CH	
C108	87-010-322-080	C-CAP,S 100P-50 CH		C251	87-010-405-080	CAP, ELECT 10-50V	
C109	87-010-182-080	C-CAP,S 2200P-50 B		C252	87-010-196-080	CHIP CAPACITOR,0.1-25	
C110	87-010-182-080	C-CAP,S 2200P-50 B		C253	87-010-196-080	CHIP CAPACITOR,0.1-25	
C111	87-010-182-080	C-CAP,S 2200P-50 B		C254	87-010-405-080	CAP, ELECT 10-50V	
C112	87-010-384-080	CAP, ELECT 100-25V		C255	87-010-178-080	CHIP CAP 1000P	
C113	87-010-196-080	CHIP CAPACITOR,0.1-25		C256	87-010-405-080	CAP, ELECT 10-50V	
C114	87-010-263-080	CAP, ELECT 100-10V		C257	87-010-182-080	C-CAP,S 2200P-50 B	
C115	87-010-196-080	CHIP CAPACITOR,0.1-25		C258	87-A10-201-080	C-CAP,S 0.33-16 KB	
C118	87-010-311-080	CAP 12P		C259	87-010-405-080	CAP, ELECT 10-50V	
C119	87-010-311-080	CAP 12P		C260	87-010-405-080	CAP, ELECT 10-50V	
C120	87-010-401-080	CAP, ELECT 1-50V		C261	87-010-405-080	CAP, ELECT 10-50V	
C121	87-010-196-080	CHIP CAPACITOR,0.1-25		C262	87-010-405-080	CAP, ELECT 10-50V	
C122	87-010-196-080	CHIP CAPACITOR,0.1-25		C263	87-010-405-080	CAP, ELECT 10-50V	
C123	87-010-401-080	CAP, ELECT 1-50V		C264	87-010-169-080	C-CAP,S 180P-50 SL	
C124	87-010-196-080	CHIP CAPACITOR,0.1-25		C265	87-010-196-080	CHIP CAPACITOR,0.1-25	
C125	87-010-191-080	C-CAP,S 0.015-50 F		C266	87-010-405-080	CAP, ELECT 10-50V	
C126	87-010-987-080	C-CAP,S 1500P-50 CH		C267	87-010-405-080	CAP, ELECT 10-50V	
C127	87-010-196-080	CHIP CAPACITOR,0.1-25		C268	87-010-196-080	CHIP CAPACITOR,0.1-25	
C128	87-010-401-080	CAP, ELECT 1-50V		C269	87-010-169-080	C-CAP,S 180P-50 SL	
C129	87-010-384-080	CAP, ELECT 100-25V		C270	87-010-405-080	CAP, ELECT 10-50V	
C130	87-010-196-080	CHIP CAPACITOR,0.1-25		C271	87-010-196-080	CHIP CAPACITOR,0.1-25	
C131	87-010-263-080	CAP, ELECT 100-10V		C272	87-010-196-080	CHIP CAPACITOR,0.1-25	
C132	87-010-196-080	CHIP CAPACITOR,0.1-25		C273	87-010-314-080	C-CAP,S 22P-50V	
C133	87-010-263-080	CAP, ELECT 100-10V		C274	87-010-196-080	CHIP CAPACITOR,0.1-25	
C134	87-010-196-080	CHIP CAPACITOR,0.1-25		C275	87-010-196-080	CHIP CAPACITOR,0.1-25	
C135	87-010-196-080	CHIP CAPACITOR,0.1-25		C276	87-010-405-080	CAP, ELECT 10-50V	
C136	87-012-141-080	CHIP-CAPACITOR,0.22-16F		C277	87-010-196-080	CHIP CAPACITOR,0.1-25	
C137	87-010-196-080	CHIP CAPACITOR,0.1-25		C278	87-010-196-080	CHIP CAPACITOR,0.1-25	
C138	87-010-263-080	CAP, ELECT 100-10V		C279	87-010-196-080	CHIP CAPACITOR,0.1-25	
C139	87-010-263-080	CAP, ELECT 100-10V		C280	87-010-314-080	C-CAP,S 22P-50V	
C140	87-010-196-080	CHIP CAPACITOR,0.1-25		C281	87-010-401-080	CAP, ELECT 1-50V	
C141	87-010-263-080	CAP, ELECT 100-10V		C282	87-010-405-080	CAP, ELECT 10-50V	
C142	87-010-196-080	CHIP CAPACITOR,0.1-25		C283	87-010-405-080	CAP, ELECT 10-50V	
C143	87-010-196-080	CHIP CAPACITOR,0.1-25		C301	87-012-393-080	C-CAP,S 0.22-16 R K	
C145	87-010-196-080	CHIP CAPACITOR,0.1-25		C302	87-012-393-080	C-CAP,S 0.22-16 R K	
C146	87-010-196-080	CHIP CAPACITOR,0.1-25		C303	87-010-196-080	CHIP CAPACITOR,0.1-25	
C147	87-010-263-080	CAP, ELECT 100-10V		C304	87-012-393-080	C-CAP,S 0.22-16 R K	
C154	87-010-401-080	CAP, ELECT 1-50V		C305	87-010-184-080	CHIP CAPACITOR 3300P(K)	
C201	87-010-401-080	CAP, ELECT 1-50V		C306	87-010-183-080	C-CAP,S 2700P-50 B	
C202	87-010-316-080	C-CAP,S 33P-50 CH		C307	87-010-196-080	CHIP CAPACITOR,0.1-25	
C203	87-010-196-080	CHIP CAPACITOR,0.1-25		C308	87-010-196-080	CHIP CAPACITOR,0.1-25	
C205	87-010-405-080	CAP, ELECT 10-50V		C309	87-010-184-080	CHIP CAPACITOR 3300P(K)	
C206	87-010-196-080	CHIP CAPACITOR,0.1-25		C310	87-010-183-080	C-CAP,S 2700P-50 B	
C208	87-A10-369-080	C-CAP,S 0.47-16 K B		C311	87-012-393-080	C-CAP,S 0.22-16 R K	
C209	87-010-316-080	C-CAP,S 33P-50 CH		C312	87-010-374-080	CAP, ELECT 47-10V	
C210	87-010-405-080	CAP, ELECT 10-50V		C313	87-010-196-080	CHIP CAPACITOR,0.1-25	
C221	87-012-156-080	C-CAP,S 220P-50 CH		C315	87-010-404-080	CAP, ELECT 4.7-50V	
C225	87-010-178-080	CHIP CAP 1000P		C316	87-010-404-080	CAP, ELECT 4.7-50V	
C226	87-010-405-080	CAP, ELECT 10-50V		C317	87-010-183-080	C-CAP,S 2700P-50 B	
C227	87-012-156-080	C-CAP,S 220P-50 CH		C318	87-010-183-080	C-CAP,S 2700P-50 B	
C228	87-010-178-080	CHIP CAP 1000P		C319	87-010-545-080	CAP, ELECT 0.22-50V	
C229	87-010-405-080	CAP, ELECT 10-50V		C320	87-010-196-080	CHIP CAPACITOR,0.1-25	
C231	87-012-156-080	C-CAP,S 220P-50 CH		CN101	87-099-563-010	CONN,20P TUC-P20X-B1	
C232	87-010-405-080	CAP, ELECT 10-50V		CN102	87-A60-190-010	CONN,16P H TUC-P16X-B1	
C233	87-010-196-080	CHIP CAPACITOR,0.1-25		FB101	87-008-372-080	FILTER, EMI BL OIRNI	
				FB102	87-008-372-080	FILTER, EMI BL OIRNI	
				FB103	87-008-372-080	FILTER, EMI BL OIRNI	
				FB105	87-008-372-080	FILTER, EMI BL OIRNI	

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
FB106	87-008-474-080	F-BEAD,EMI	BL02RN1	C789	87-010-260-080	CAP, ELECT	47-25V
FB107	87-008-474-080	F-BEAD,EMI	BL02RN1	C790	87-010-260-080	CAP, ELECT	47-25V
J101	87-A60-573-010	JACK,PIN 1P	ORN	C791	87-010-405-080	CAP, ELECT	10-50V
L101	87-005-274-080	COIL,68UH K	LAL03	C792	87-010-405-080	CAP, ELECT	10-50V
L102	87-005-274-080	COIL,68UH K	LAL03	C793	87-012-368-080	C-CAP,S	0.1-50 F
L103	87-005-274-080	COIL,68UH K	LAL03	C794	87-012-368-080	C-CAP,S	0.1-50 F
L104	87-008-501-080	FLTR,DSS306-B101		C797	87-010-322-080	C-CAP,S	100P-50 CH
L105	87-008-501-080	FLTR,DSS306-B101		C798	87-010-322-080	C-CAP,S	100P-50 CH
L106	87-008-501-080	FLTR,DSS306-B101		C799	87-010-322-080	C-CAP,S	100P-50 CH
L108	87-005-274-080	COIL,68UH K	LAL03	CN701	87-099-557-010	CONN,11P	TUC-P11X-B1
L109	87-008-501-080	FLTR,DSS306-B101		R773	87-010-188-080	CAP,CHIP	6800P
L110	87-005-274-080	COIL,68UH K	LAL03				
L111	87-005-274-080	COIL,68UH K	LAL03				
L112	87-005-274-080	COIL,68UH K	LAL03				
X101	87-A70-115-010	VIB,XTAL	12.288MHZ				
						OSD/KEY CON C.B	
X102	87-A70-186-080	C-VIB,XTAL OSC	FCX0-3	C101	87-010-263-080	CAP, ELECT	100-10V
				C102	87-010-196-080	CHIP CAPACITOR	,0.1-25
				C103	87-010-400-080	CAP, ELECT	0.47-50V
				C104	87-010-315-080	C-CAP,S	27P-50 CH
				C106	87-012-159-080	C-CAP,S	24P-50 CH
VIDEO C.B							
C101	87-018-131-080	CAP, CER	1000P-50V	C107	87-010-198-080	CAP, CHIP	0.022
C102	87-010-186-080	CAP,CHIP	4700P	C108	87-010-805-080	CAP, S	1-16
C501	87-018-209-080	CAP, CER	0.1-50V	C110	87-010-401-080	CAP, ELECT	1-50V
C502	87-018-209-080	CAP, CER	0.1-50V	C111	87-010-545-080	CAP, ELECT	0.22-50V
C503	87-010-188-080	CAP,CHIP	6800P	C113	87-010-196-080	CHIP CAPACITOR	,0.1-25
C504	87-010-188-080	CAP,CHIP	6800P	C114	87-016-079-040	CAP,E	100-6.3 MJ
C507	87-018-209-080	CAP, CER	0.1-50V	C115	87-010-149-080	C-CAP,S	5P-50 CH
CN401	87-099-758-010	CONN,17P H	9604	C116	87-010-149-080	C-CAP,S	5P-50 CH
FB501	87-008-372-080	FILTER, EMI BL	OIRNI	C117	87-012-150-080	C-CAP,S	20P-50 CH
FB602	87-008-372-080	FILTER, EMI BL	OIRNI	C118	87-010-316-080	C-CAP,S	33P-50 CH
J501	87-A60-606-010	JACK,PIN 3P R/W/Y	W/O SW H	C119	87-010-401-080	CAP, ELECT	1-50V
J603	87-A60-550-010	JACK,DIA6.3 BLK	ST W/SW KM	C121	87-010-401-080	CAP, ELECT	1-50V
LED401	87-A40-317-080	LED,SLR-342VCT31	RED	C122	87-010-322-080	C-CAP,S	100P-50 CH
S401	87-A90-095-080	SW,TACT	EVQ11G04M	C125	87-012-154-080	C-CAP,S	150P-50 CH
S402	87-A90-095-080	SW,TACT	EVQ11G04M	CN510	87-099-669-010	CONN,8P	TUC-P8X-B1
S403	87-A90-095-080	SW,TACT	EVQ11G04M	L101	87-A50-083-080	COIL,47UH	(CECS)
SW401	87-A91-373-010	SW,RTRY	EC16B1220408	L102	87-005-839-080	COIL,5.6UH G	LF5.0S
				L103	87-A50-083-080	COIL,47UH	(CECS)
				L104	87-005-849-080	COIL,10UH	(CECS)
				X101	80-JU1-676-080	VIB,XTAL	14.31MHZ
GEQ C.B							
C758	87-010-404-080	CAP, ELECT	4.7-50V				
C759	87-012-368-080	C-CAP,S	0.1-50 F	PT C.B			
C761	87-010-198-080	CAP, CHIP	0.022				
C762	87-010-197-080	CAP, CHIP	0.01 DM				
C764	87-010-185-080	C-CAP,S	3900P-50 B				
C765	87-010-194-080	CAP, CHIP	0.047				
C766	87-010-181-080	CAP,CHIP	S 1800P				
C767	87-010-198-080	CAP, CHIP	0.022				
C768	87-010-994-080	C-CAP,S	680P-50 CH				
C769	87-010-188-080	CAP,CHIP	6800P				
C770	87-012-145-080	CAP, CHIP	S 270P CH				
C771	87-010-183-080	C-CAP,S	2700P-50 B				
C772	87-012-145-080	CAP, CHIP	S 270P CH				
C773	87-010-188-080	CAP,CHIP	6800P				
C774	87-010-994-080	C-CAP,S	680P-50 CH				
C775	87-010-198-080	CAP, CHIP	0.022				
C776	87-010-181-080	CAP,CHIP	S 1800P				
C777	87-010-194-080	CAP, CHIP	0.047				
C778	87-010-185-080	C-CAP,S	3900P-50 B				
C780	87-010-197-080	CAP, CHIP	0.01 DM				
C782	87-010-183-080	C-CAP,S	2700P-50 B				
C783	87-010-198-080	CAP, CHIP	0.022				
C786	87-010-402-080	CAP, ELECT	2.2-50V				
C787	87-010-402-080	CAP, ELECT	2.2-50V				
C788	87-010-260-080	CAP, ELECT	47-25V				

- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

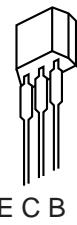
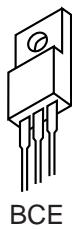
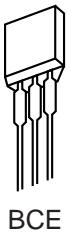
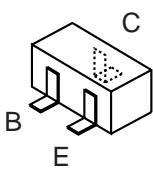
○チップ抵抗部品コード／CHIP RESISTOR PART CODE



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

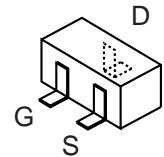
TRANSISTOR ILLUSTRATION



2SA1037 DTA144WK
2SA1235 DTC124EK
2SC2714 RN1410
2SC3052 RT1N141C
2SD1306 RT1N144C
CMBT5401 RT1P141C
CMBT5551 RT1P144C
CSA1362

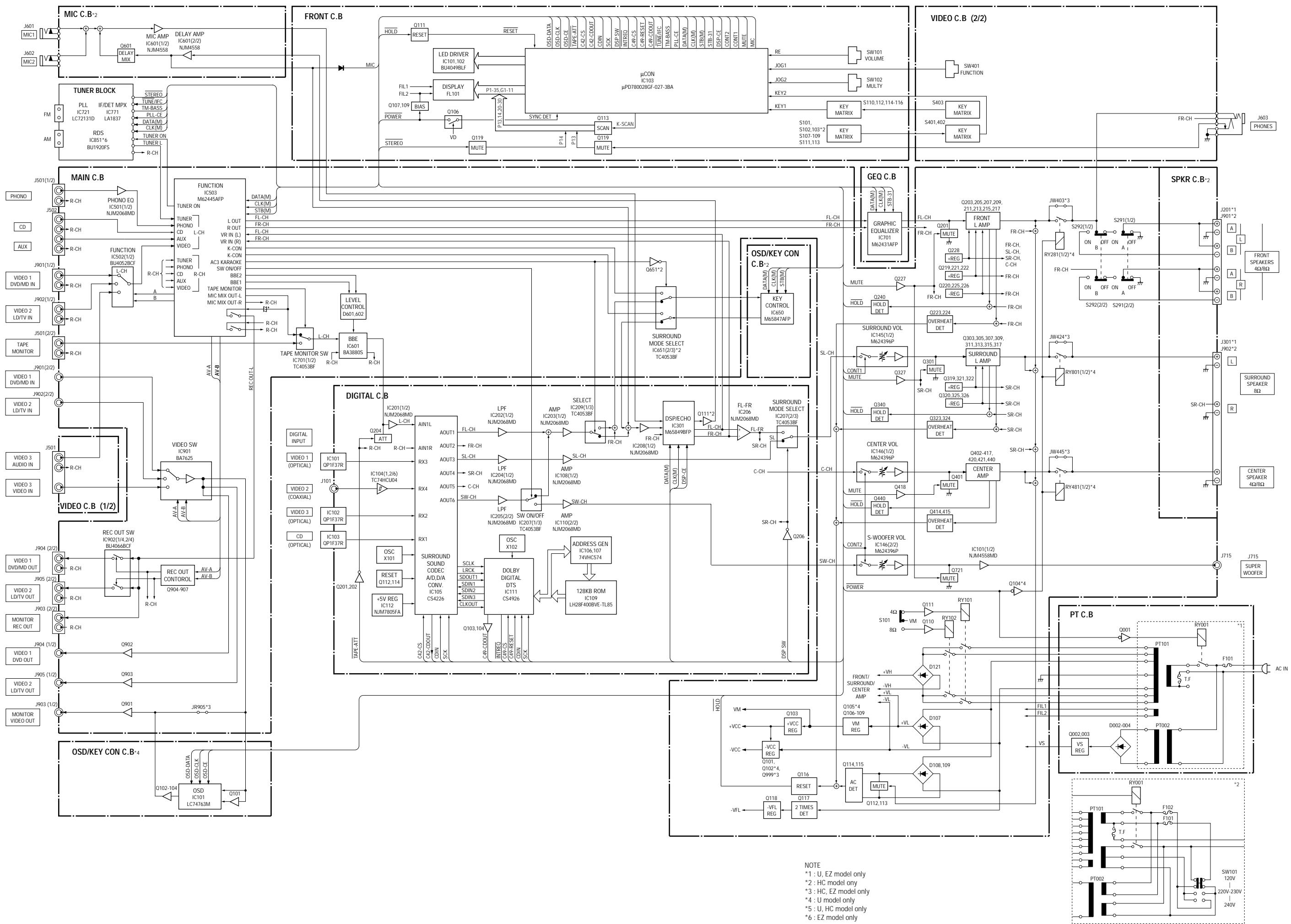
2SA1296 DTA114YS
CC5551 2SB1370
CSD1489 2SB1375
DTC114ES FN 1016
KTA1266GR FP 1016
KTA1267GR KTC3199GR
KTC3198GR

2SC4115



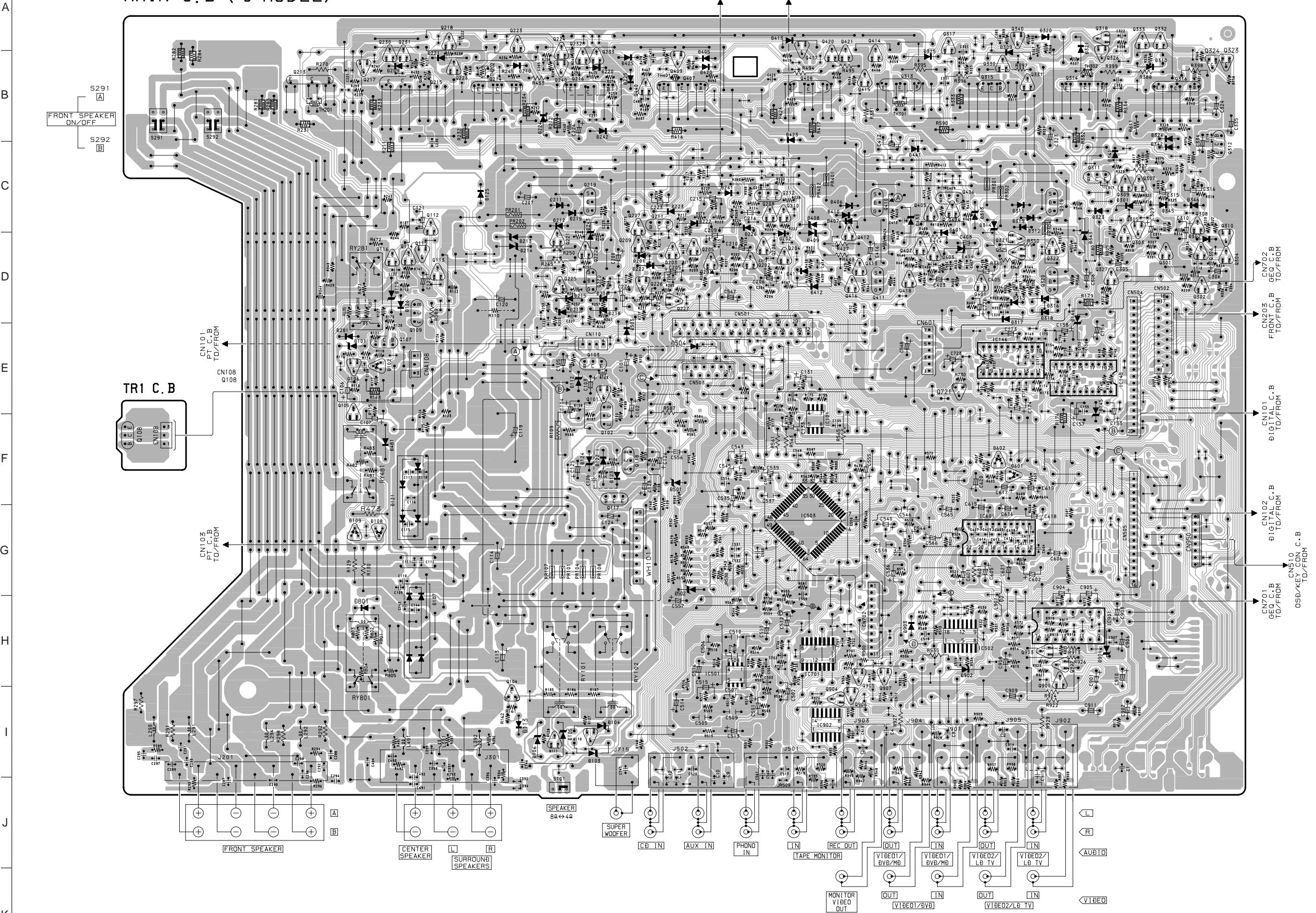
2SK2158
2SK2937

BLOCK DIAGRAM

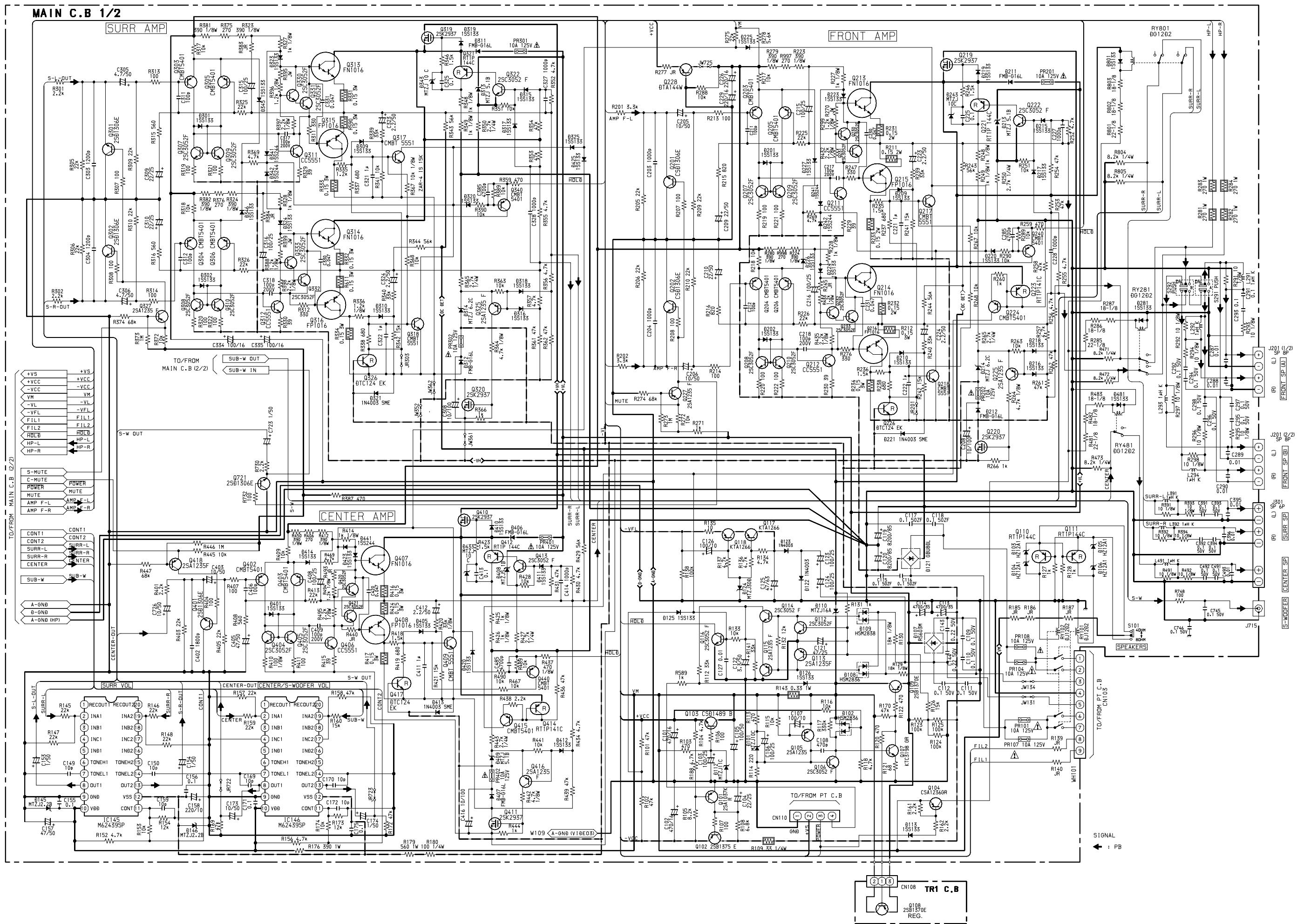


1 2 3 4 5 6 7 8 9 10 11 12 13 14

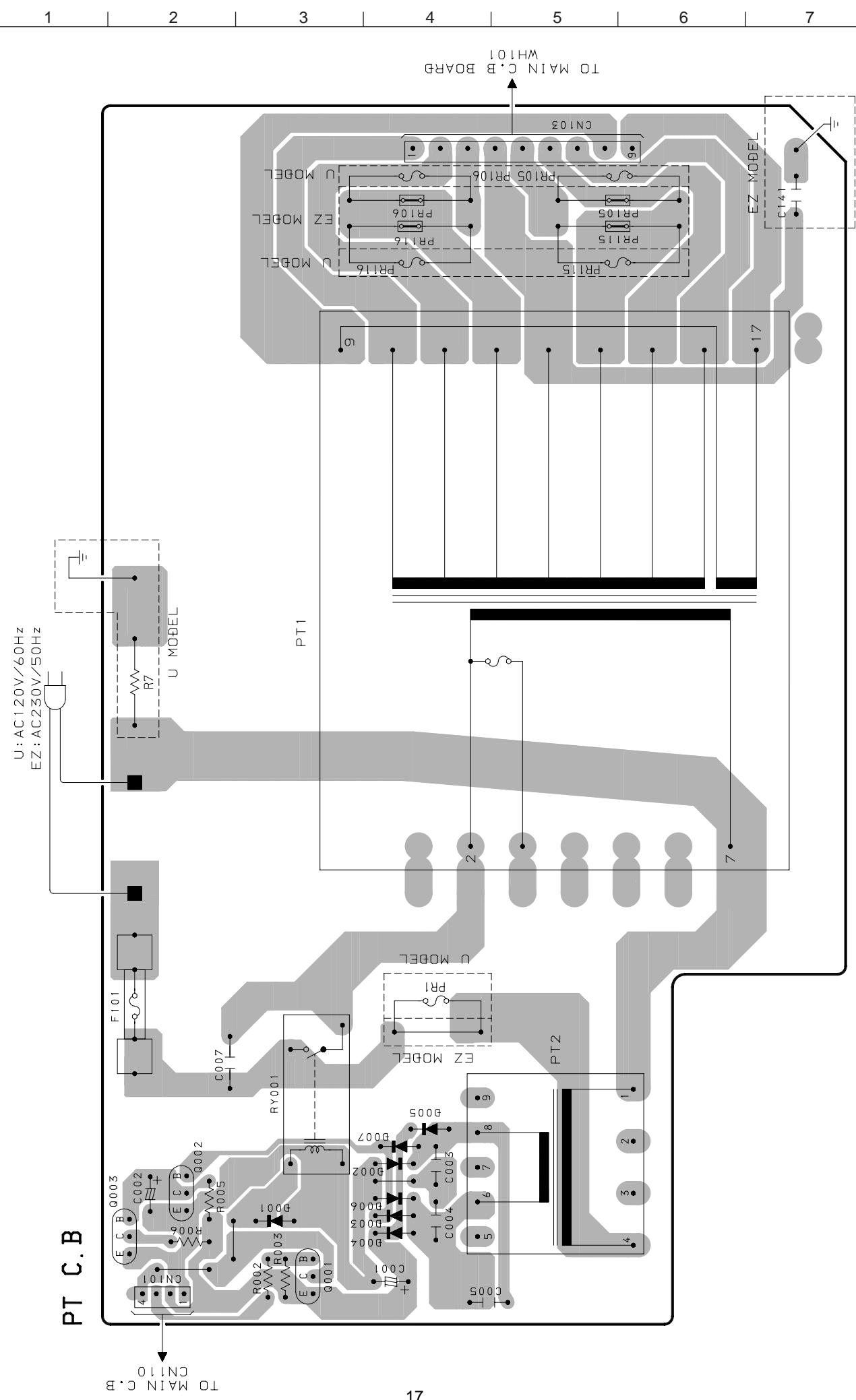
MAIN C. B (U MODEL)



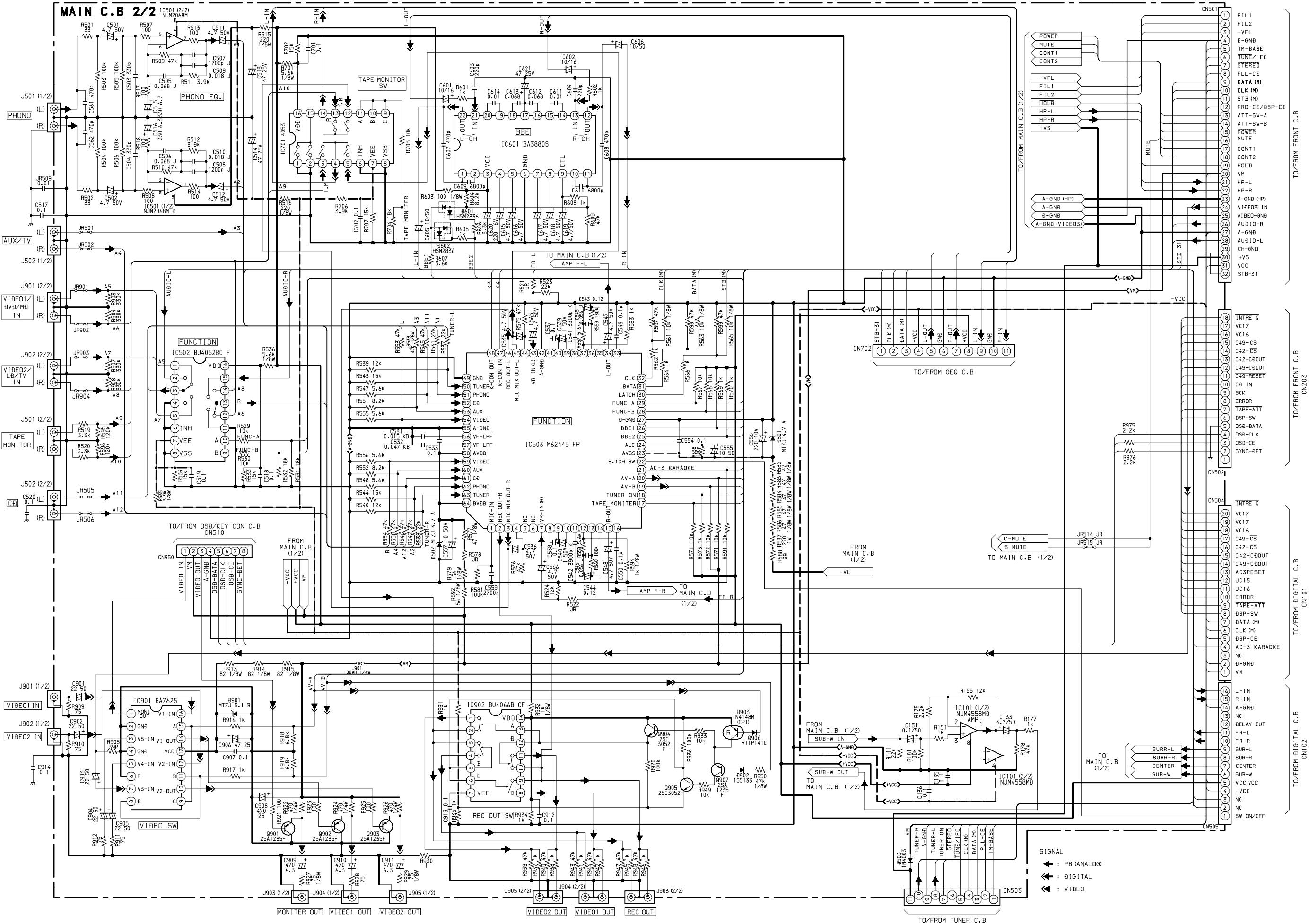
SCHEMATIC DIAGRAM-1 (MAIN 1/2)



WIRING-2 (PT)

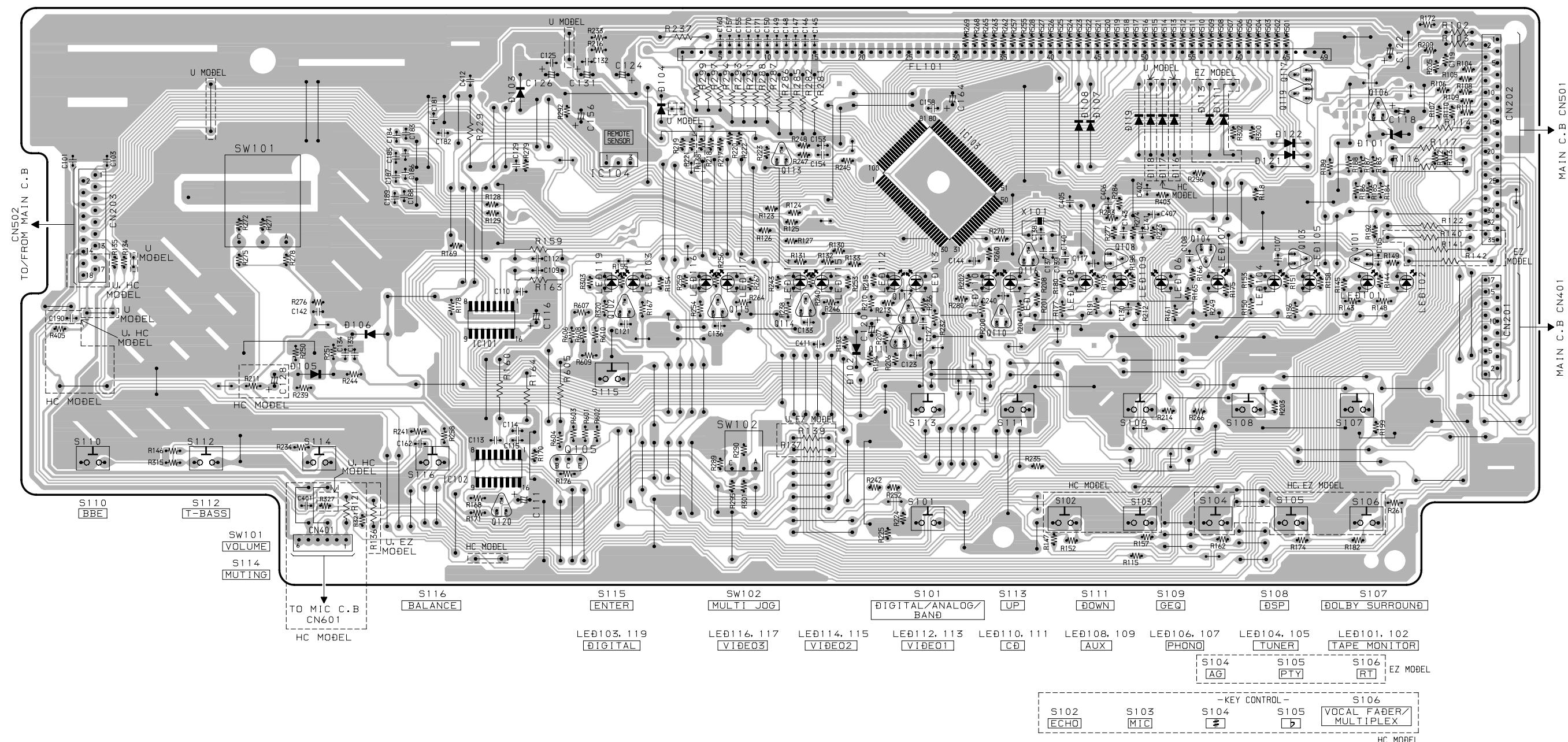


SCHEMATIC DIAGRAM-3 (MAIN 2/2)

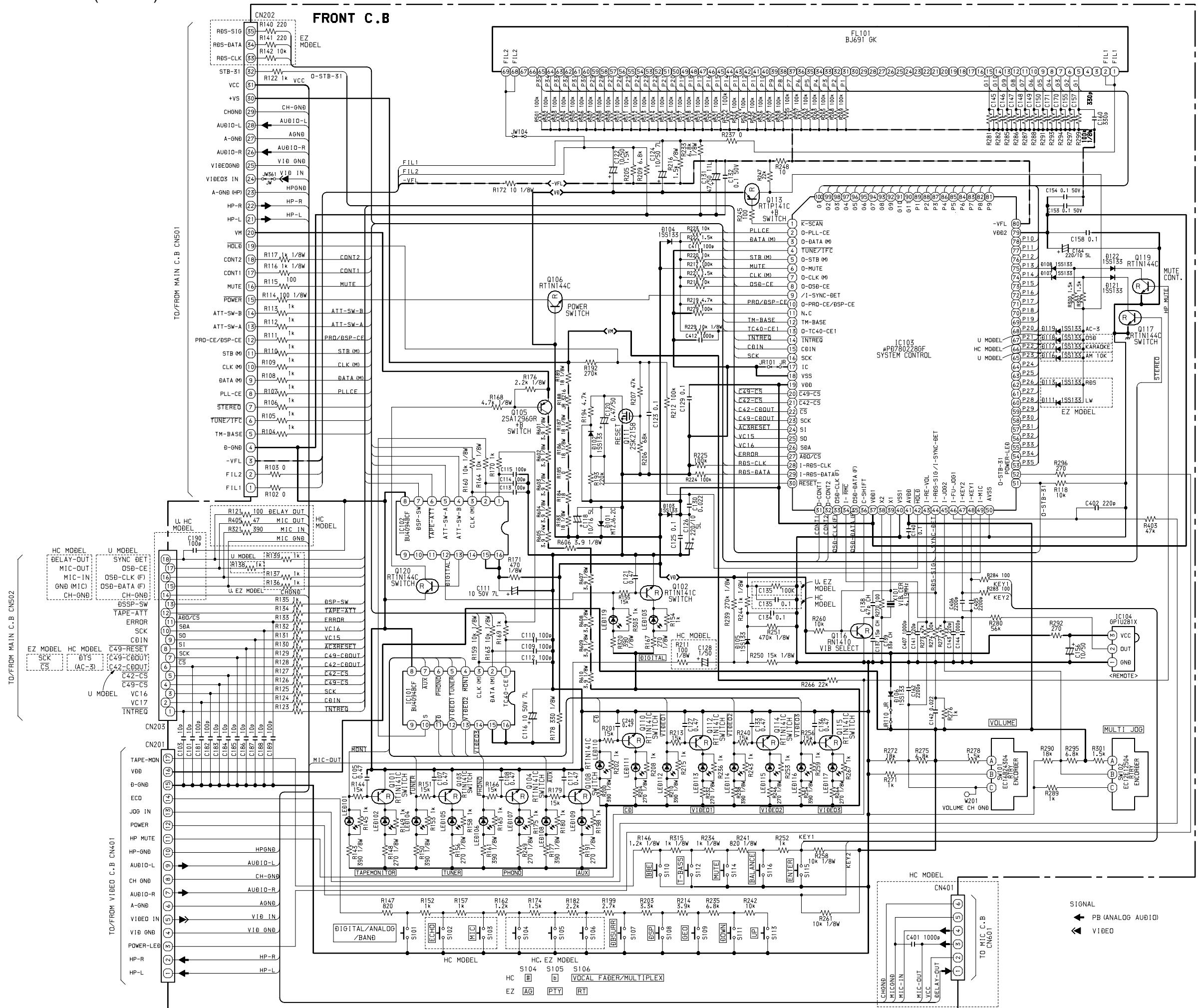


WIRING-3 (FRONT)

FRONT C. B

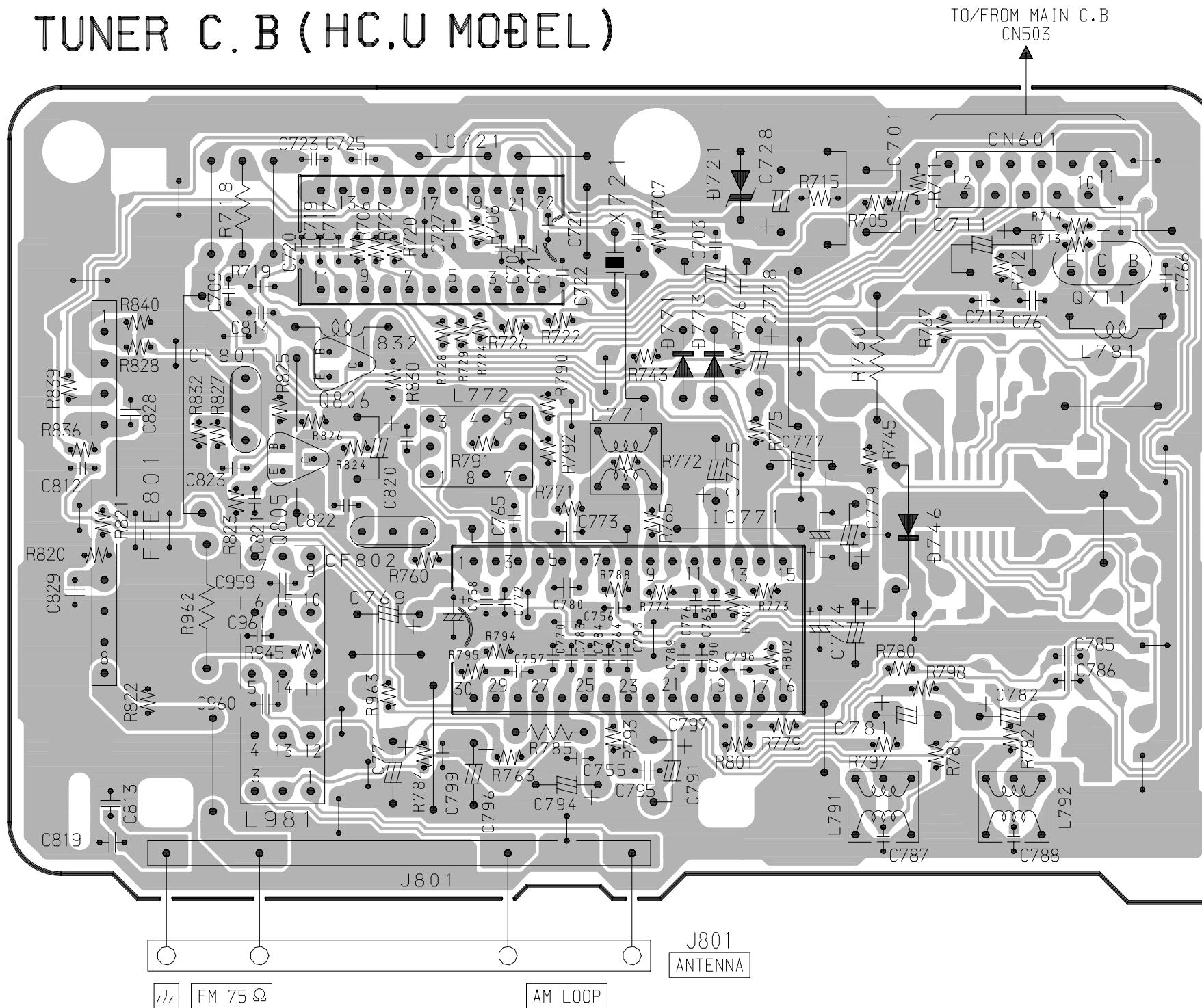


SCHEMATIC DIAGRAM-4 (FRONT)

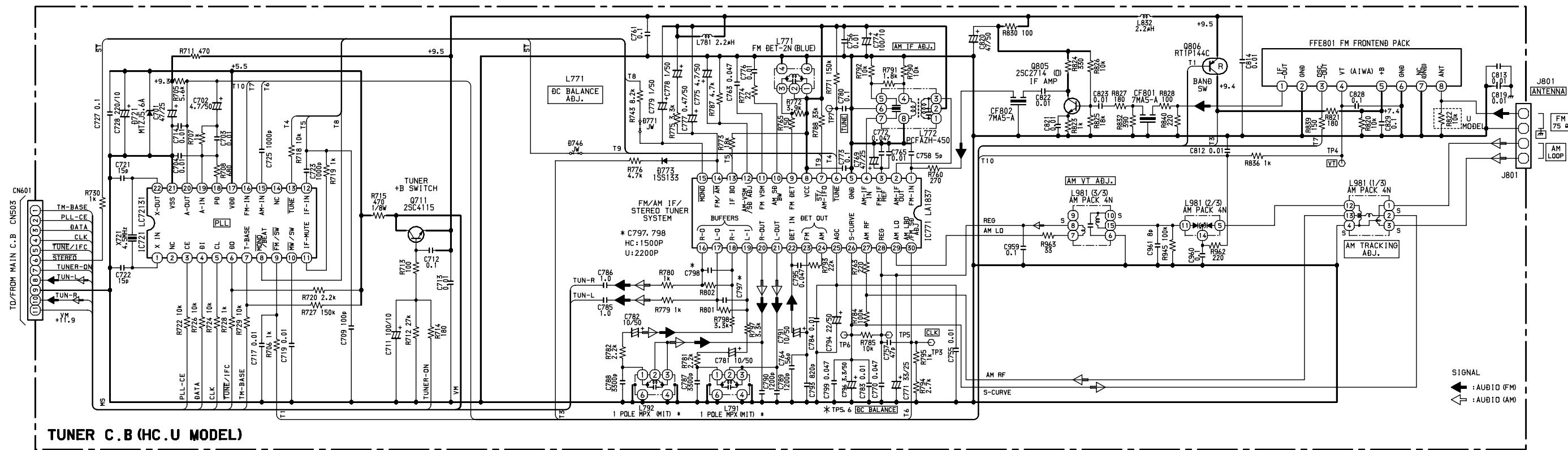


1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

TUNER C.B (HC.U MODEL)



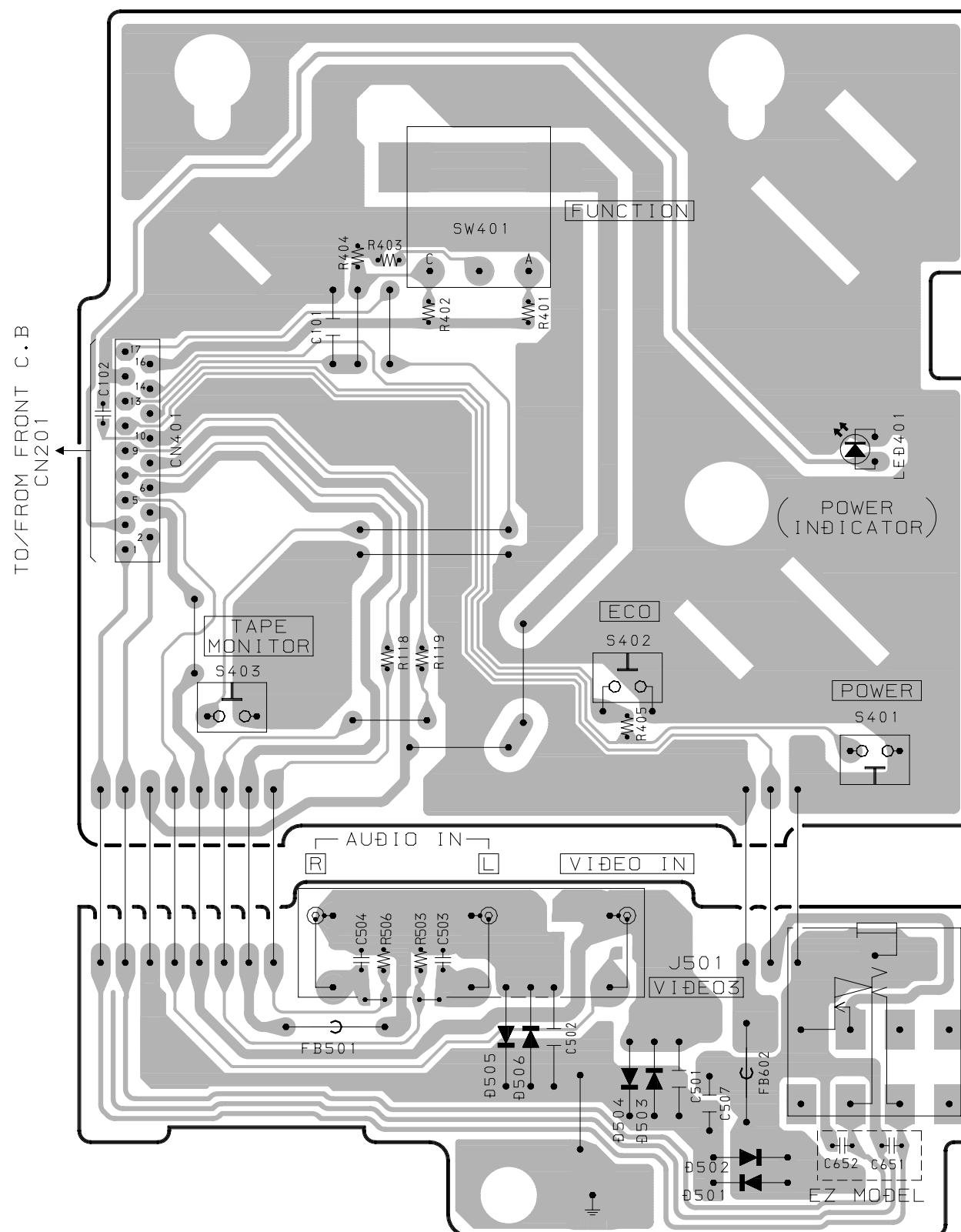
SCHEMATIC DIAGRAM-5 (TUNER)



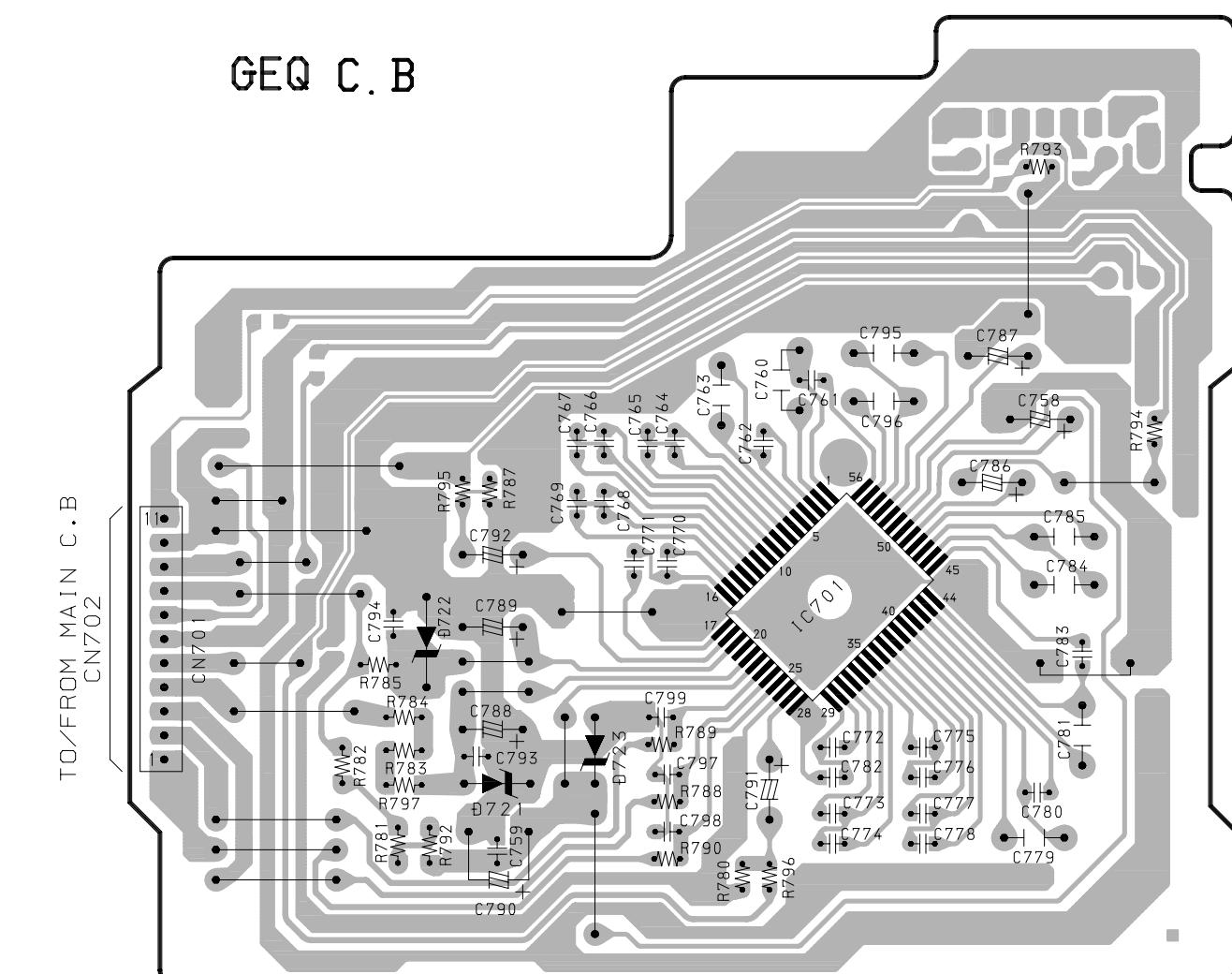
1 2 3 4 5 6 7 8 9 10 11 12 13 14

A

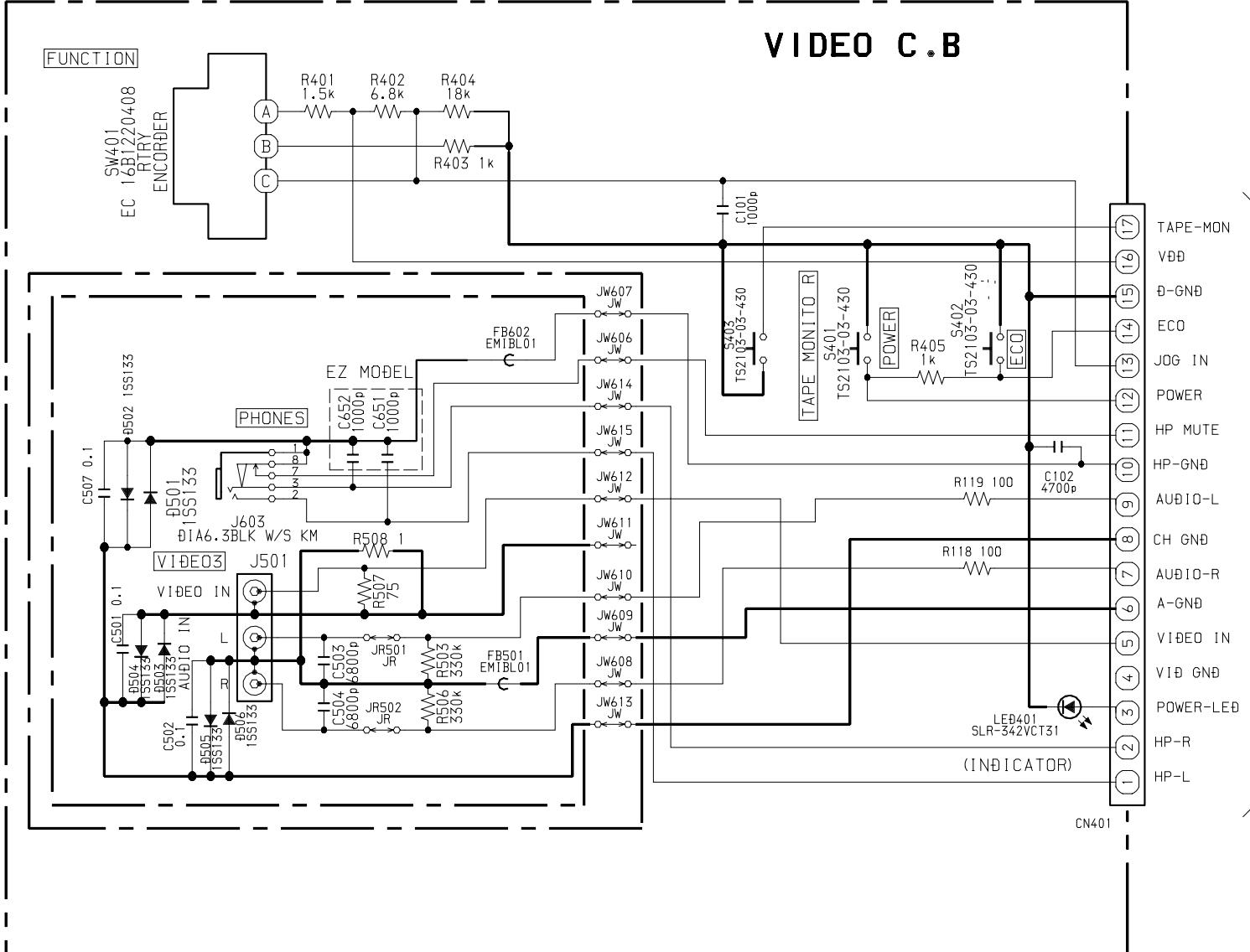
VIDEO C. B



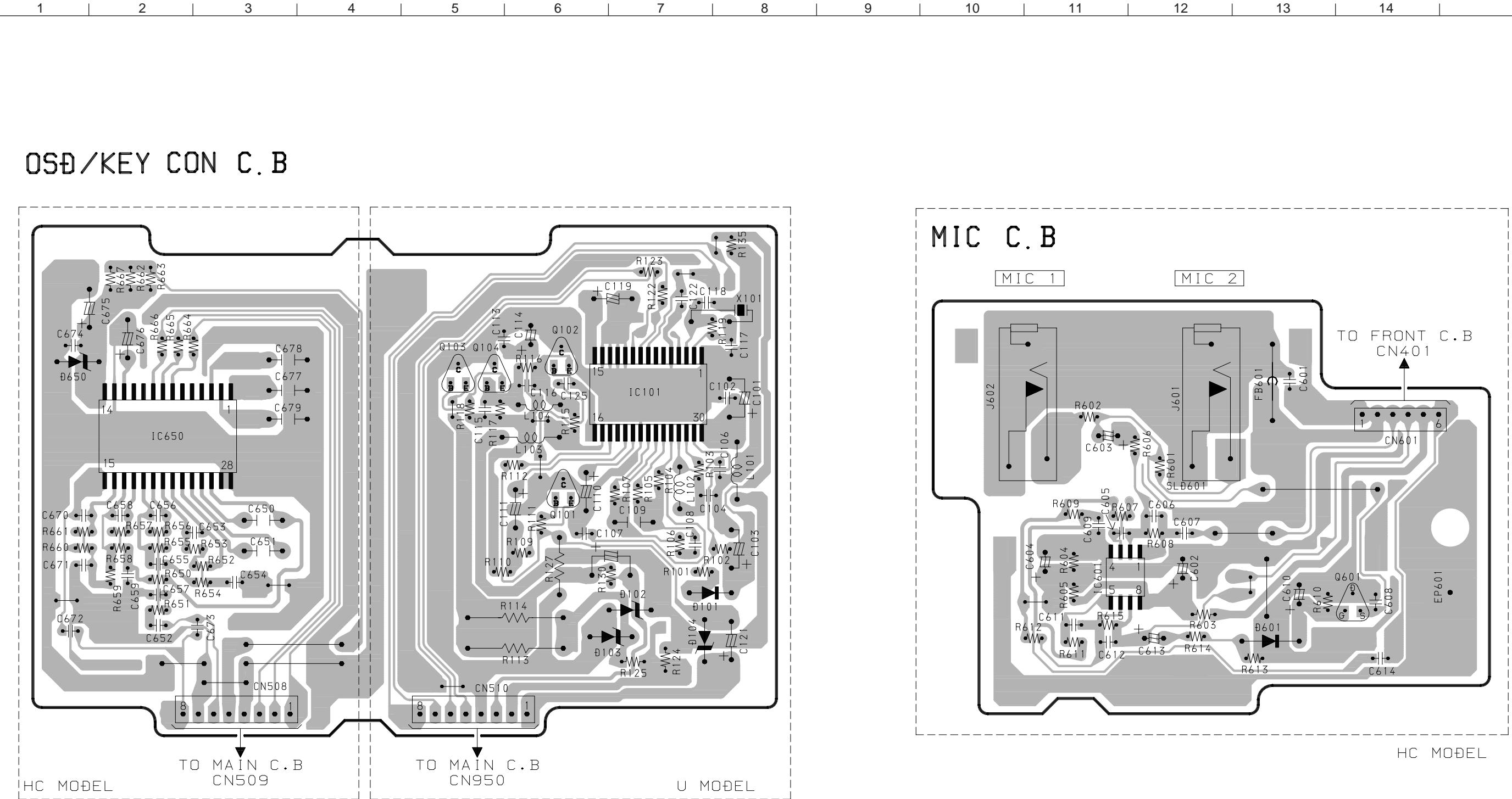
GEQ C. B



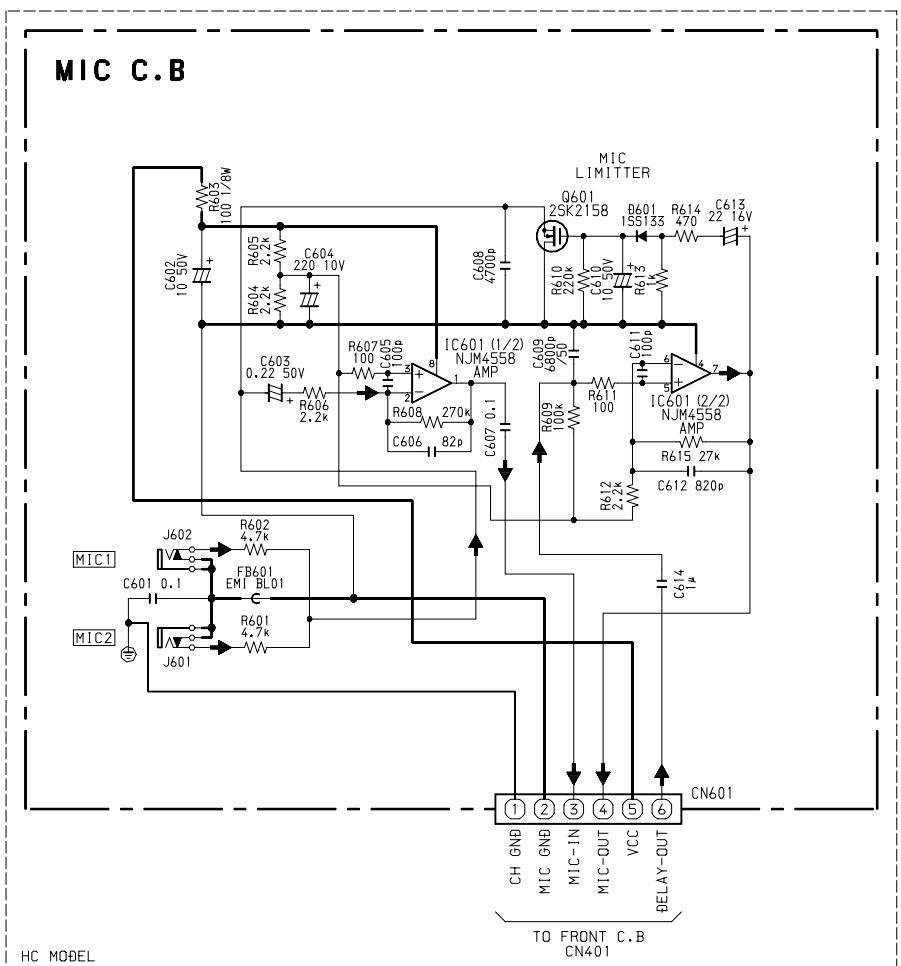
SCHEMATIC DIAGRAM-6 (HP/VIDEO/GEQ)



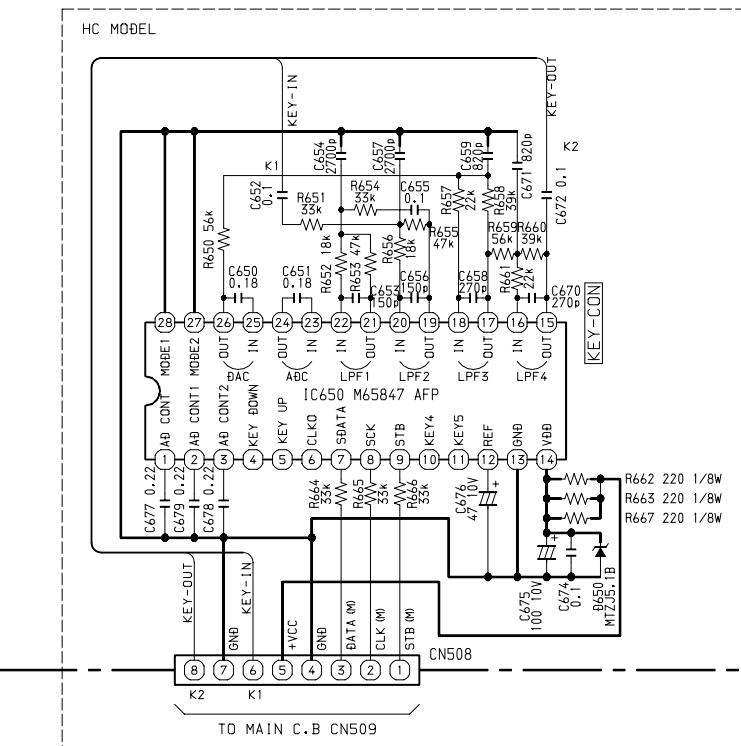
WIRING-6 (OSD/KEY CONTROL)



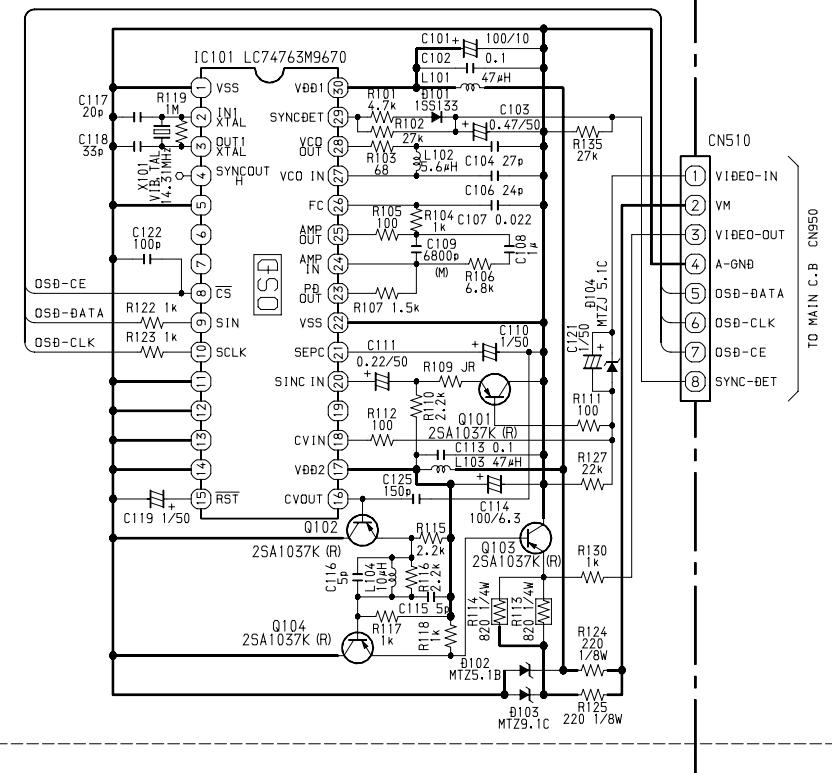
SCHEMATIC DIAGRAM-7 (OSD/KEY CONTROL)



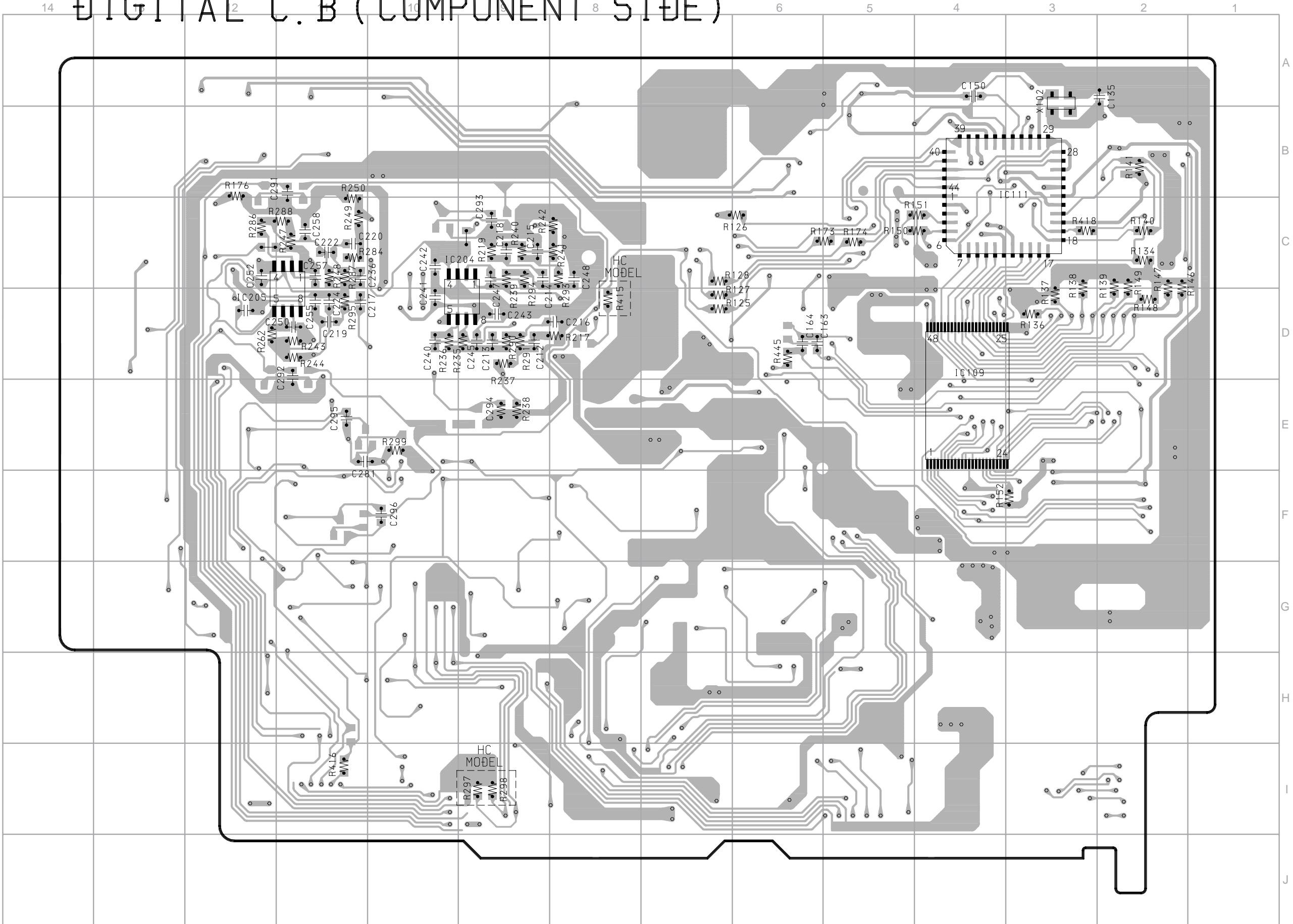
OSD/KEY CON C.B



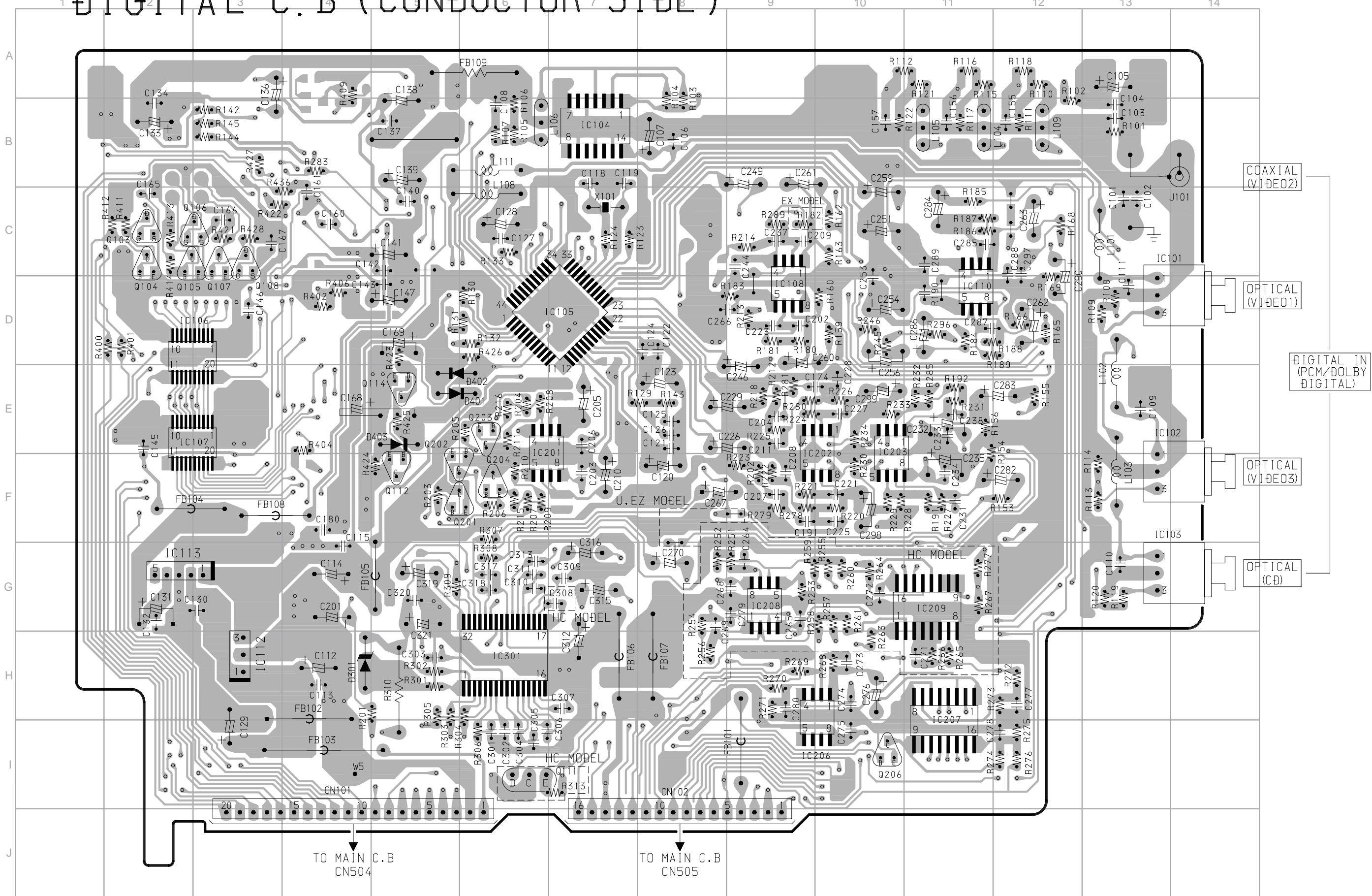
U MODEL



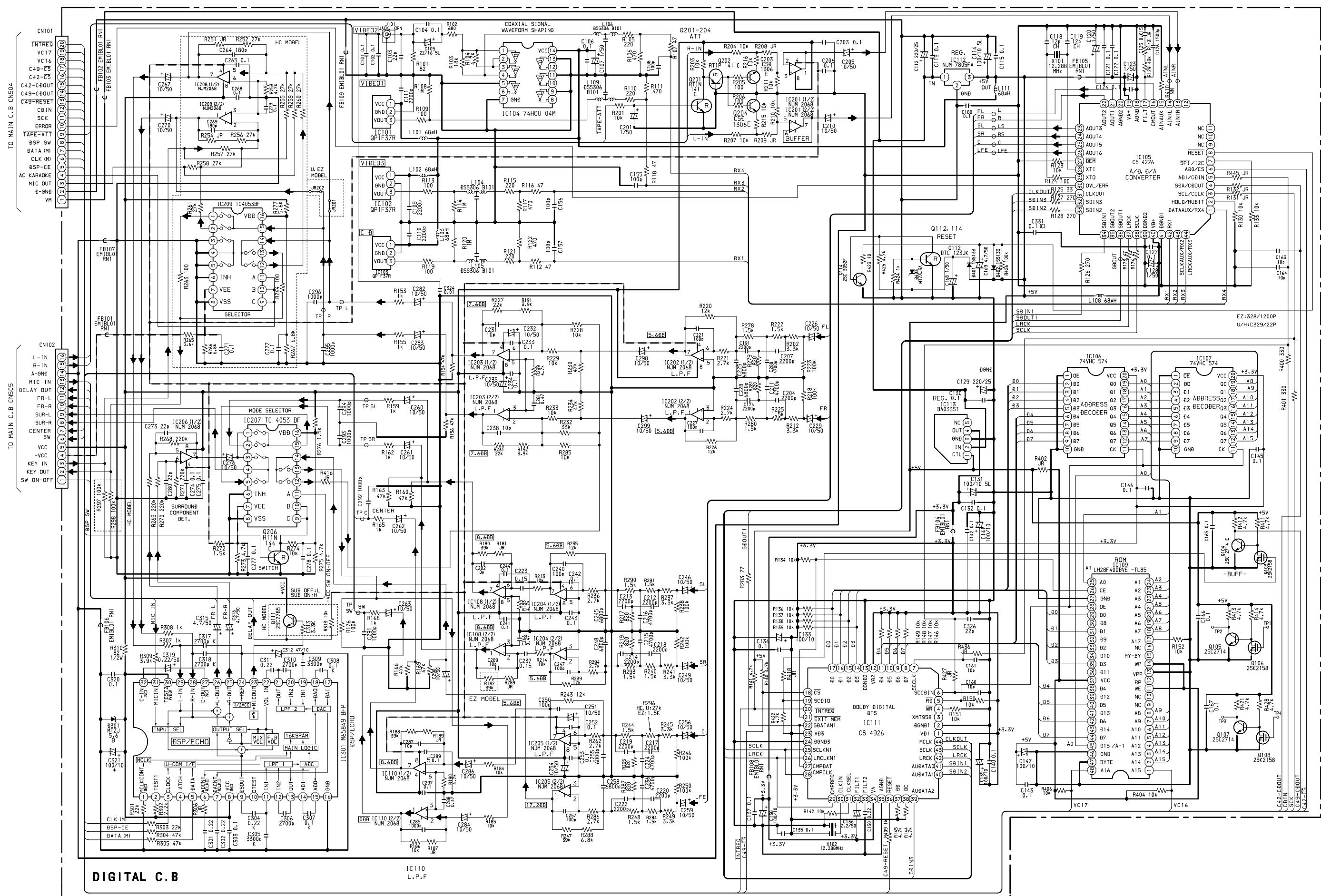
DIGITAL C. B (COMPONENT SIDE)



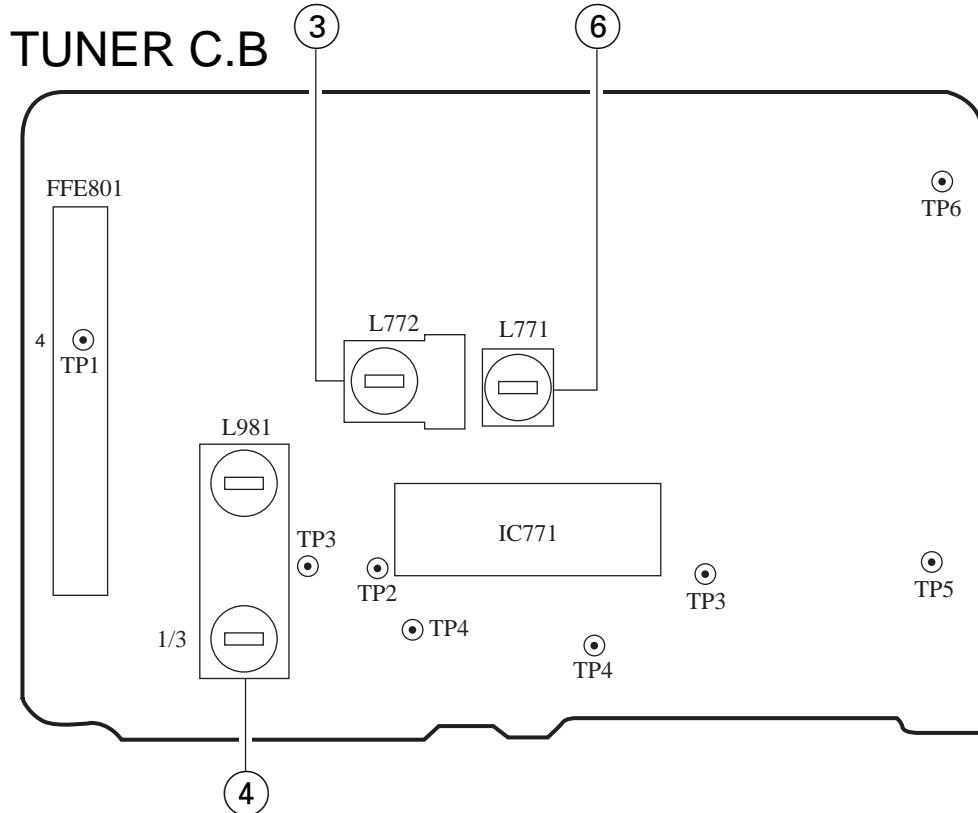
DIGITAL C. B (CONDUCTOR SIDE)



SCHEMATIC DIAGRAM-8 (DIGITAL)



ELECTRICAL ADJUSTMENT



< TUNER SECTION >

1. Clock Frequency Check

- Settings: • Test point: TP2 (CLK IC770 pin30)
 Method: Set to AM 1602kHz and check that the test point becomes $2052\text{kHz} \pm 45\text{Hz}$.

2. AM VT Check

- Settings: • Test point: TP1 (VT)
 Method: Set to AM 1710kHz and check that the test point is less than 8.5V.
 Then set to AM 530kHz and check that the test point is more than 0.6V.

3. AM IF Adjustment

- Settings: • Test point: TP5, TP6
 L772 450kHz

4. AM Tracking Adjustment

- Settings: • Test point: TP5, TP6
 • Adjustment location: L981 (1/3)
 Method: Set to AM 999kHz and adjust L981 so that the test point becomes maximum.

5. FM VT Check

- Settings: • Test point: TP1 (VT)
 Method: Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 0.5V (87.5MHz) and less than 8.0V (108.0MHz).

6. DC Balance/Mono Distortion Adjustment

- Settings: • Test point: TP3, TP4
 • Adjustment location: L771
 • Input level: 60dB
 Method: Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes $0V \pm 0.04V$.
 Next, check that the distortion is less than 1.3%.

PRACTICAL SERVICE FIGURE

< TUNER SECTION >

<FM SECTION>

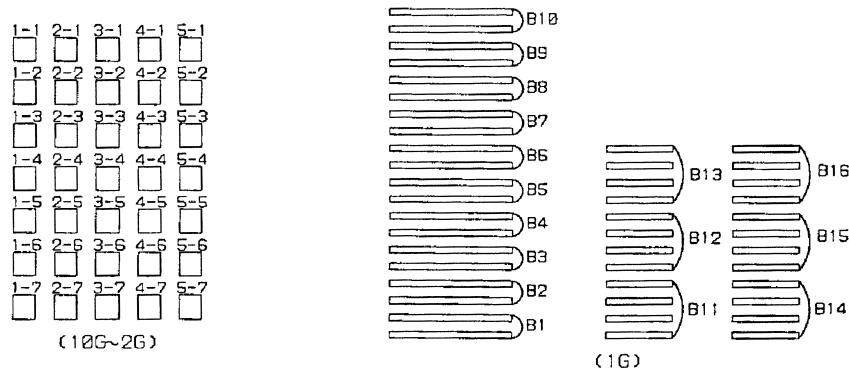
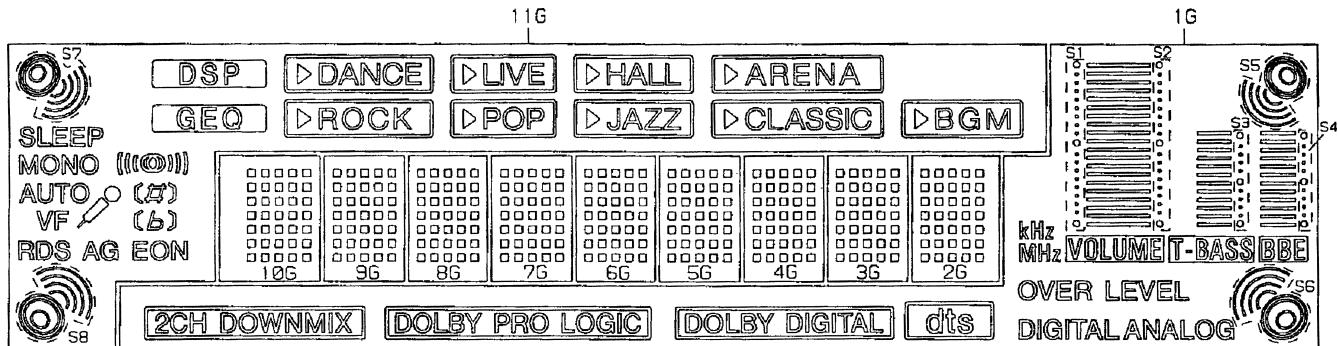
- Signal to noise ratio: More than 62dB
 (at 98.0MHz)
 Distortion: Less than 2.0%
 (Input: 60dB)
 Stereo separation: More than 22dB
 (at 98.0MHz)
 Intermediate frequency: 10.7MHz

<AM SECTION>

- Sensitivity: Less than 60dB (at 600kHz)
 (S/N 20dB)
 Signal to noise ratio: More than 36dB
 (Input: 74dB)
 Distortion: Less than 1.5%
 (at 1000kHz)
 Intermediate frequency: 450kHz

FL (BJ691GK) GRID ASSIGNMENT/ANODE CONNECTION

GRID ASSIGNMENT

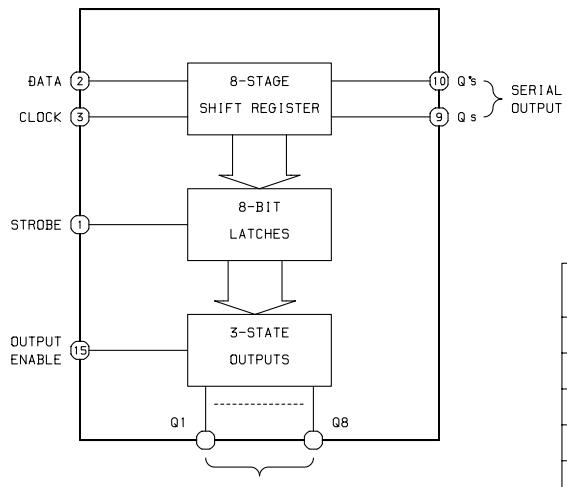


ANODE CONNECTION

PIN NO.	66 66 66 66 66 66 65 55 55 55 55 55 98 76 54 32 10 99 87 65 43 32 1
CONNECTION	F F N N 3 3 3 3 3 3 2 2 2 2 2 2 / / P P 5 4 3 2 1 0 9 8 7 6 5 4 3 2 1

IC BLOCK DIAGRAM

IC, BU4094BCF

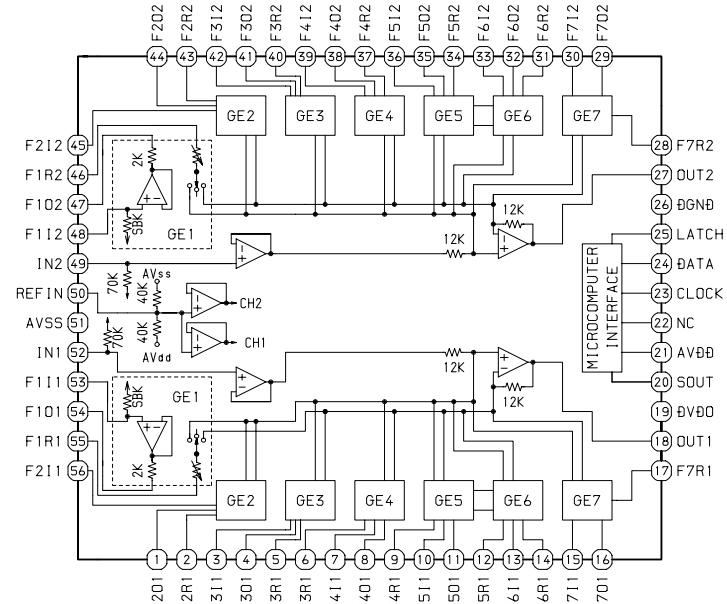


CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
$\overline{\downarrow}$	L	X	X	Z	Z	Q7	No Chg.
$\overline{\downarrow}$	L	X	X	Z	Z	No Chg.	Qs
$\overline{\downarrow}$	H	L	X	No Chg.	No Chg.	Q7	No Chg.
$\overline{\downarrow}$	H	H	L	L	Qn-1	Q7	No Chg.
$\overline{\downarrow}$	H	H	H	H	Qn-1	Q7	No Chg.
$\overline{\downarrow}$	H	X	X	No Chg.	No Chg.	No Chg.	Qs

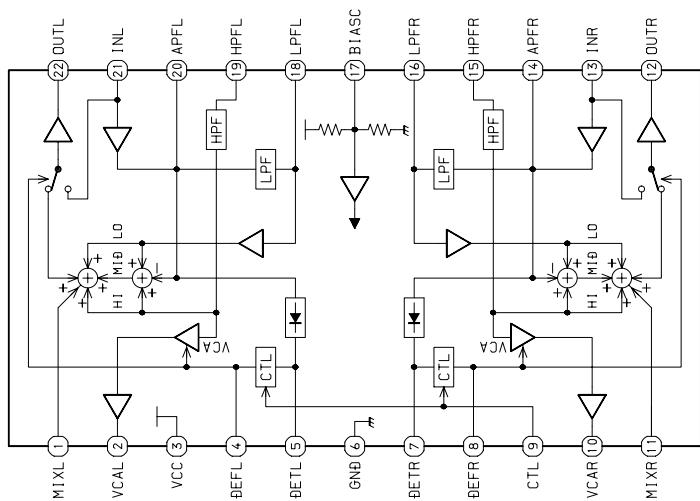
Z=High Impedance

X=Don't Care

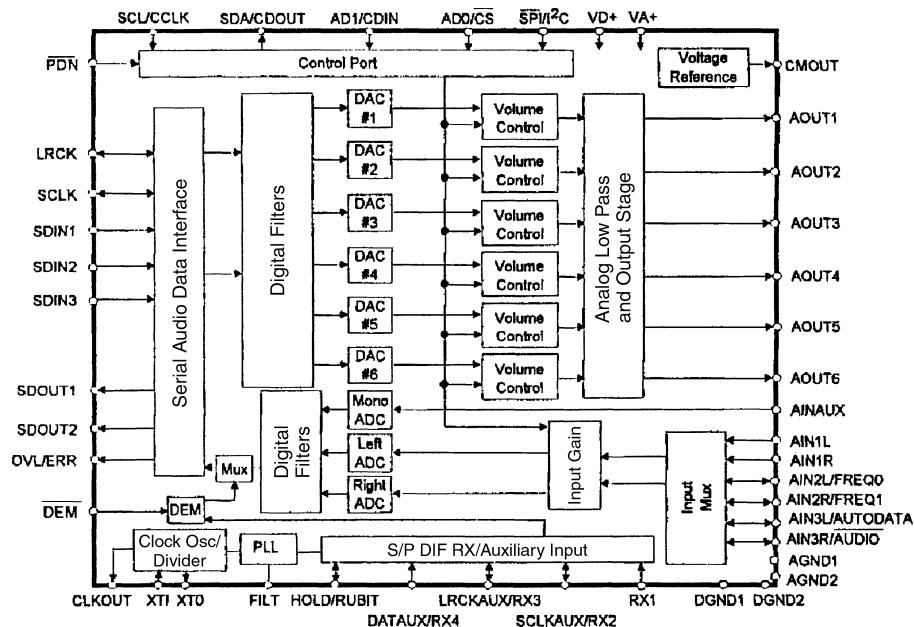
IC, M62431FP



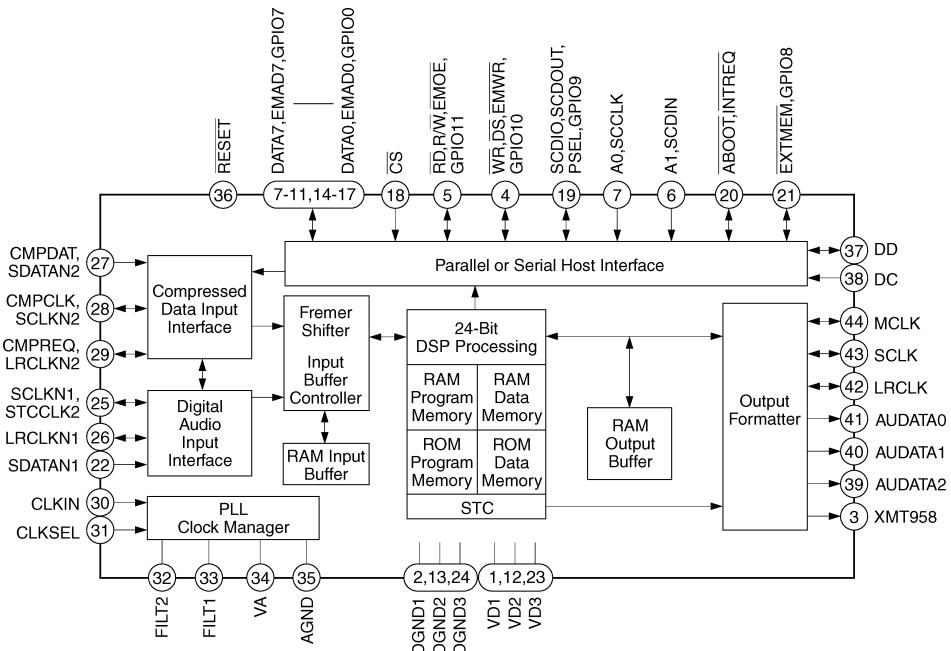
IC, BA3880S



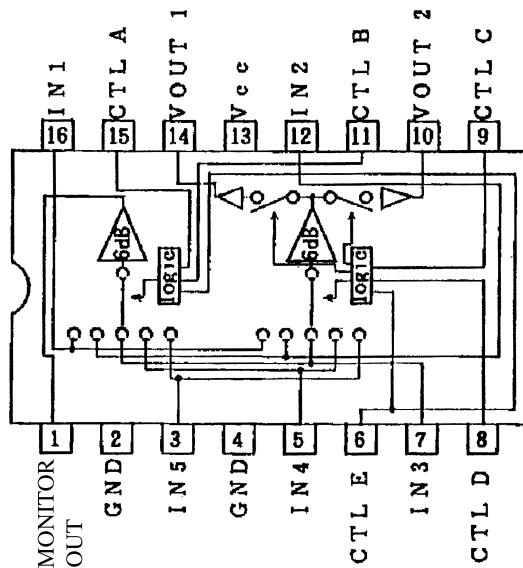
IC, CS4226



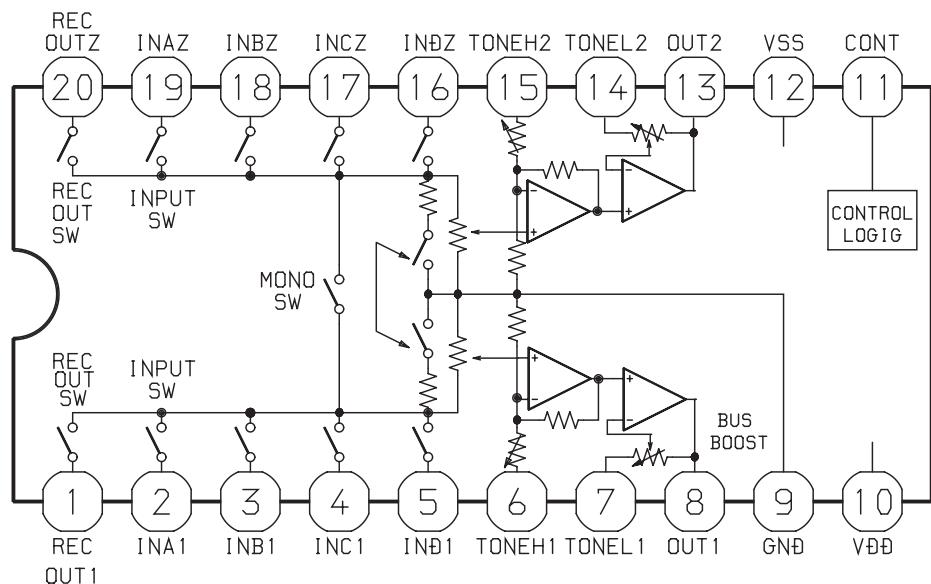
IC, CS4926



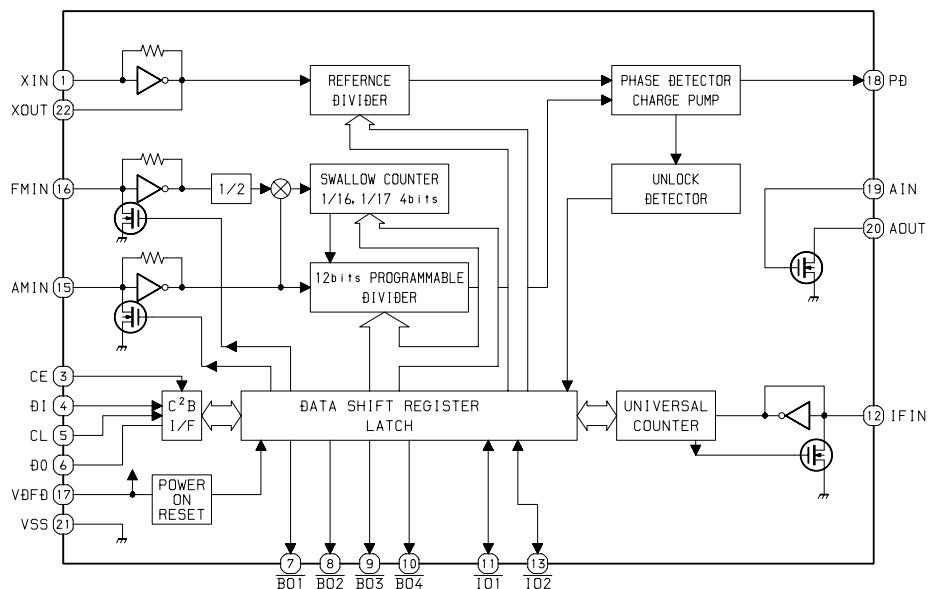
IC, BA7625



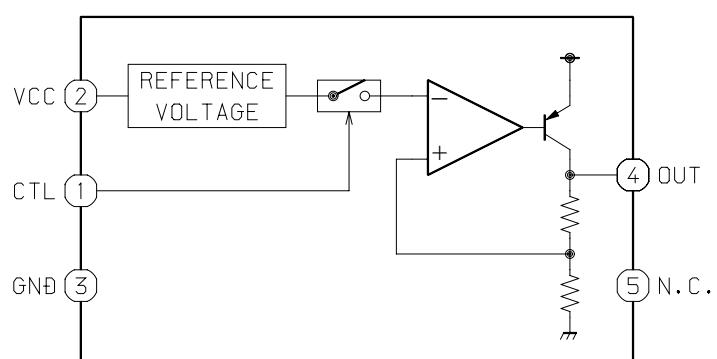
IC, M62439SP



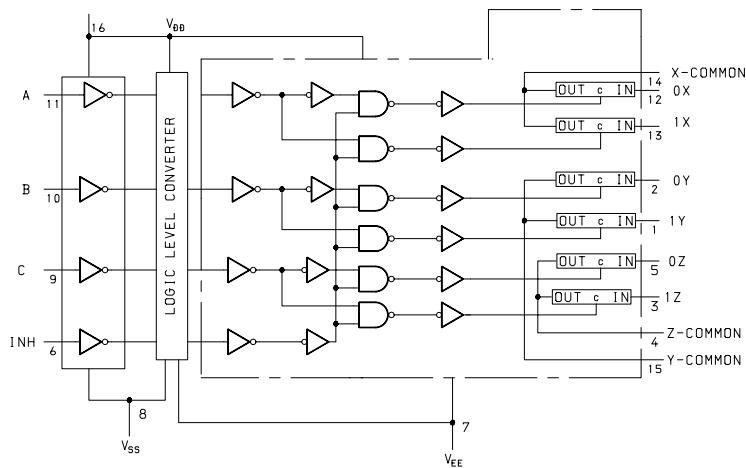
IC, LC72131D



IC, BA033ST



IC, TC4053BF



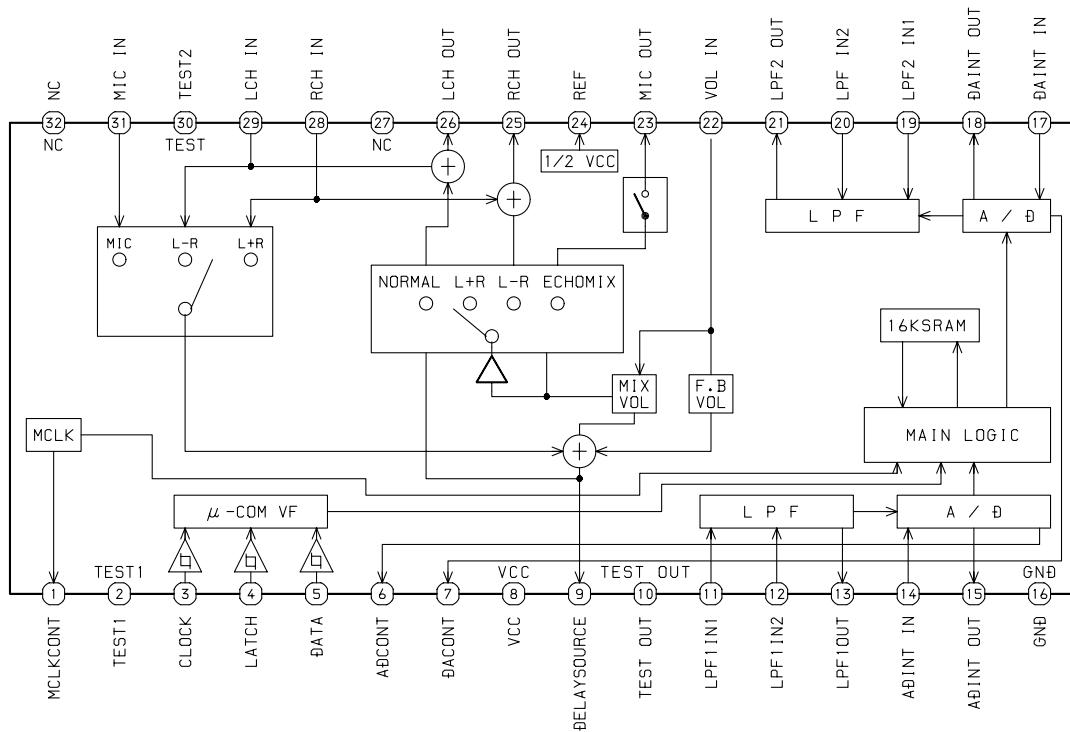
CONTROL C		Impedance Between IN-OUT*
H		0.5 ~ 5 × 10 ² Ω
L		> 10 ⁹ Ω

* See Electrical Characteristics

CONTROL INPUTS				
INHIBIT	C	B	A	
L	L	L	L	
L	L	L	H	
L	L	H	L	
L	L	H	H	
L	H	L	L	
L	H	L	H	
L	H	H	L	
L	H	H	H	
H	*	*	*	*

*: DON't Care △: Expect TC4052B

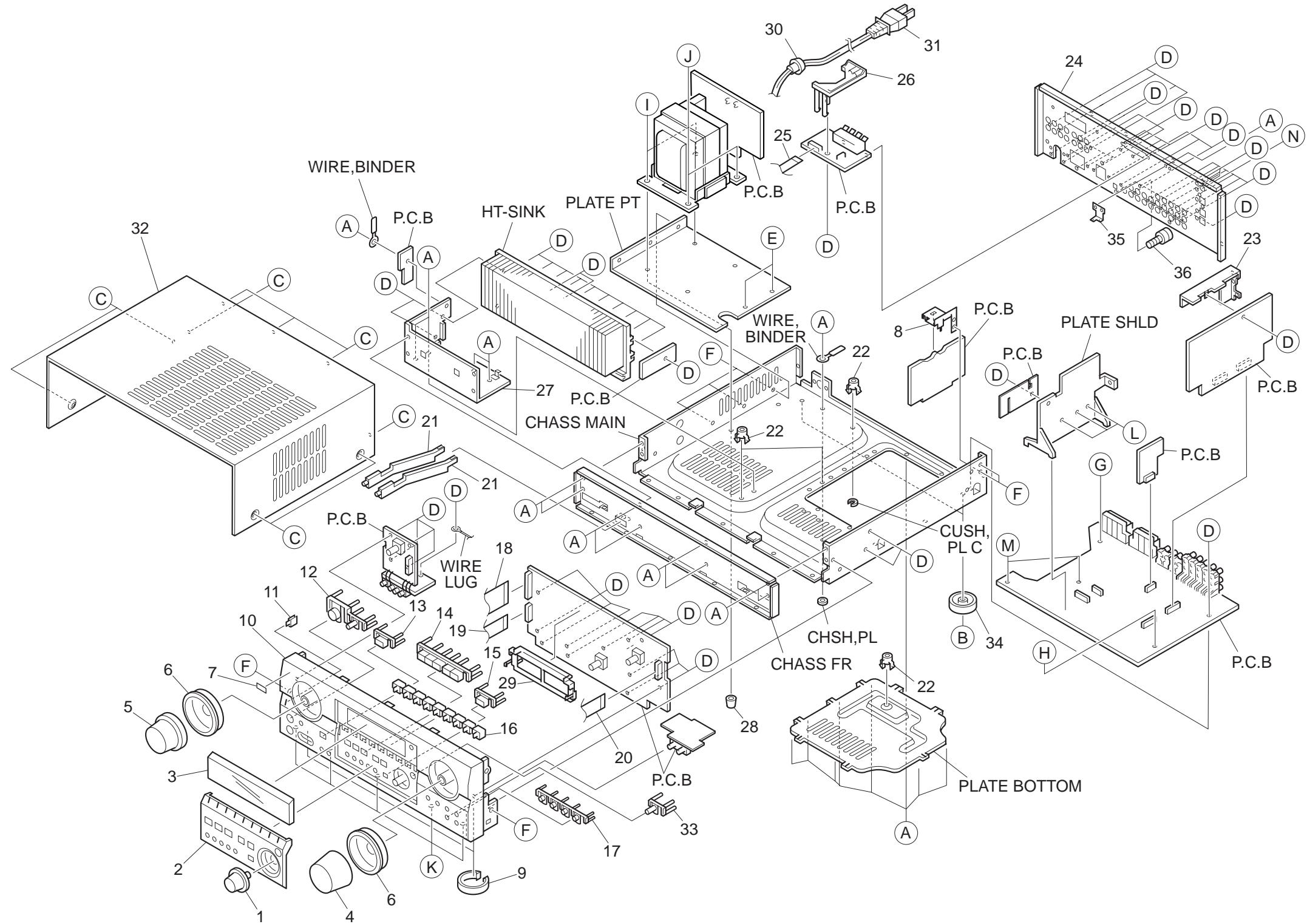
IC, M65849BFP631D



IC DESCRIPTION
IC, UPD780228GF

Pin No.	Pin Name	I/O	Description
1	K-SCAN	O	Scan output to diode input (Active "L").
2	O-PLL-CE	O	Tuner PLL chip enable output.
3	O-DATA (M)	O	Sound CTRL, PLL, DOLBY PROLOGIC or DSP, AC-3 VOL, GEQ. Data output.
4	TUNE/IFC	I	Tuner TUNE/IFC detection input.
5	O-STB (M)	O	Sound CTRL, KEYCON strobe output.
6	O-MUTE	O	System mute ON/OFF output.
7	O-CLK (M)	O	Sound CTRL, PLL, DOLBY PROLOGIC or DSP, AC-3 VOL, GEQ. Clock output.
8	O-OSD (CE)	O	OSD chip enable output.
9	/I-SYNC-DET	O	System power supply. ON/OFF output.
10	O-PRO-CE/O-DSP-CE	O	DOLBY PROLOGIC or DSP chip enable output.
11	—	—	Not used.
12	TM-BASE	I	Reference clock input for watch.
13	—	O	IC101. Strobe output from shift register (1).
14-16	—	—	Not used.
17	IC	—	GND.
18	VSS	—	GND.
19	VDD	—	Power supply pin.
20, 21	—	—	Not used.
22	CS	O	DOLBY digital (AC-3) control. CS output.
23	SCK	O	DOLBY digital (AC-3) control. Clock output.
24	SI	O	DOLBY digital (AC-3) control. Data output.
25	SO	I	DOLBY digital (AC-3) control. Data input.
26	SDA	I	CODEC IC (CS4226) control. Data output.
27	ADO/CS	O	CODEC IC (CS4226) control. CS output.
28	I-RDS-CLK	I	RDS clock input (external interrupt).
29	I-RDS-DATA	I	RDS data input.
30	RESET	—	Reset.
31	O-CONT.1	O	Master VOL control output for SL/SR.
32	O-CONT.2	O	Master VOL control output for center/SUB-woofer (TRIM control output for center/SUB-woofer).
33	OSD-CLK	O	OSD clock output.
34	I-RMC	I	Remote control input.
35	OSD-DATA	O	OSD data output.
36	C-SHIFT	O	Microprocessor clock shift output (Active "H").
37	VDD1	—	Power supply pin.
38	X1	—	Connected to 5.76MHz oscillator.
39	X2	—	Connected to 5.76MHz oscillator.
40	VSS1	—	GND.
41	AVDD	—	Power supply pin.
42	HOLD	I	System power supply voltage monitoring. AD input.
43	I-RE-VOL	I	Rotary encoder (VOL). AD input.

Pin No.	Pin Name	I/O	Description
44	I-SYNC-DET/I-RDS-SIG	I	OSD sync. AD input. RDS tuning signal level. AD input.
45	I-JOG2	I	Rotary encoder (JOG2). AD input.
46	I-FU-JOG1	I	Function selector rotary encoder (JOG1). AD input.
47, 48	I-KEY2, I-KEY1	I	Key 2, 1. AD input.
49	I-MIC	I	Microphone signal level detector. AD input.
50	AVSS	—	ADND.
51	O-STB-31	O	GEQ IC chip enable output.
52	POWER-LED	O	Power LED ON/OFF output (Active "H").
53-64	P35-P24	O	FL segment output (P35-P24).
65	P23/I-AM10K	O	FL segment output (P23)/supporting AM step initialization 10 kHz.
66, 67	P22/I-VF.KC.EC	I/O	FL segment output (P22, P21)/supporting VF, key control, ECHO. Diode input.
68	P20/I-AC3	I/O	FL segment output (P20)/supporting AC-3. Diode input.
69-73	P19-O-P15	O	FL segment output (P19-P15).
74	P14/I-STEREO	I/O	FL segment output (P14). Turner/stereo detection input (stereo at "L").
75	P13/I-HPMUTE	I/O	FL segment output (P13). Headphones insertion detection input (HP insertion at "L").
76-78	P12-P10	O	FL segment output (P12-P10).
79	VDD2	—	Power supply pin.
80	-VFL	—	- Voltage.
81-89	P9-P1	O	FL segment output (P9-P1).
90-100	G11-G1	O	FL grid output (G11-G1).



MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-AR1-013-010		KNOB,RTRY JOG	26	88-AR1-203-010		HLDR,TU
2	8Z-AR1-002-010		PANEL,FR	27	8Z-AR1-205-010		HLDR,HT-SINK
3	8Z-AR1-014-010		WINDOW,DISPLAY	28	8Z-NB8-240-010		COVER,PL
4	8Z-AR1-011-010		KNOB,RTRY VOL	29	88-NF6-205-010		GUIDE,FL 40-150- 9
5	8Z-AR1-012-010		KNOB,RTRY FUN	30	87-085-189-010		BUSHING, CORD (U)
6	8Z-AR1-017-010		RING,VOL	31	87-A80-110-010		AC CORD ASSY,U SPT-2W
7	82-NE6-067-010		BADGE,AIWA 30N	32	8Z-AR1-003-010		CABI,STEEL
8	88-AR2-205-110		HLDR,PWB OSD	33	8Z-AR1-007-010		KEY,ENTER
9	8Z-AR1-020-110		RING,FOOT SIL	34	8Z-AR1-021-110		FOOT,REAR
10	8Z-AR1-001-010		CABI,FR U	35	8Z-AR1-210-010		HLDR,PT PWB
11	8Z-AR1-016-010		REFLECTOR,ECO	36	87-033-209-010		TERMINAL, EARTH
12	8Z-AR1-004-010		KEY,POWER	A	87-067-584-010		TAPPING SCREW, BVT2+3-6
13	8Z-AR1-019-010		KEY,MONITOR	B	87-067-689-010		TAPPING SCREW, BVT2+3-8
14	8Z-AR1-005-010		KEY,GEQ	C	87-067-641-010		UTT2+3-8(W/O SLOT)BL
15	8Z-AR1-006-010		KEY,DIGITAL	D	87-067-703-010		TAPPING SCREW, BVT2+3-10
16	8Z-AR1-015-010		REFLECTOR,FUN	E	87-067-585-010		TAPPING SCREW, BVT2+4-6
17	8Z-AR1-018-010		KEY,BBE	F	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
18	8Z-AR1-603-010		FF-CABLE, 32P 1.25 400MM	G	87-067-632-010		TAPPING SCREW, BVT2+3-15
19	88-917-101-210		FF-CABLE, 17P 1.25	H	87-067-633-010		TAPPING SCREW, BVT2+3-8
20	8Z-AR1-606-010		FF-CABLE, 18P 1.25 340MM	I	87-078-191-010		S-SCREW,IT+4-10
21	8Z-AR1-010-010		BTN,SP	J	87-067-975-010		S-SCREW,IT+4-8
22	88-AR1-218-010		HLDR,PWB H8.9	K	87-067-761-010		TAPPING SCREW, BVT2+3-10
23	8Z-AR1-219-010		HLDR,PWB PRO	L	87-067-579-010		TAPPING SCREW, BVT2+3-8
24	8Z-AR1-025-010		PANEL,REAR UBNM	M	87-067-581-010		TAPPING SCREW, BVT2+3-15
25	88-911-161-110		FF-CABLE,11P 1.25	N	87-751-092-410		VT2+3-4 W/O SLOT

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		



サービス技術ニュース	
番号	連絡内容
G— —	
G— —	
G— —	

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